

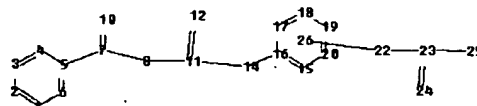
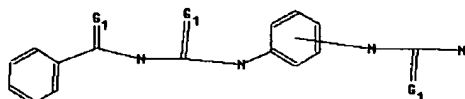
10/616,959

\* \* \* \* \* Welcome to STN International \* \* \* \* \*  
\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:21:01 ON 11 OCT 2006

=> file reg

=>Uploading C:\Program Files\Stnexp\Queries\10616959.str



chain nodes :

7 8 10 11 12 14 22 23 24

ring nodes :

1 2 3 4 5 6 15 16 17 18 19 20

ring/chain nodes :

25

chain bonds :

5-7 7-8 7-10 8-11 11-12 11-14 14-16 22-23 23-24 23-25

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-20 16-17 17-18 18-19 19-20

exact/norm bonds :

7-8 7-10 8-11 11-12 11-14 14-16 22-23 23-24 23-25

exact bonds :

5-7

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-20 16-17 17-18 18-19 19-20

isolated ring systems :

containing 1 : 15 :

G1:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:CLASS

11:CLASS 12:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom

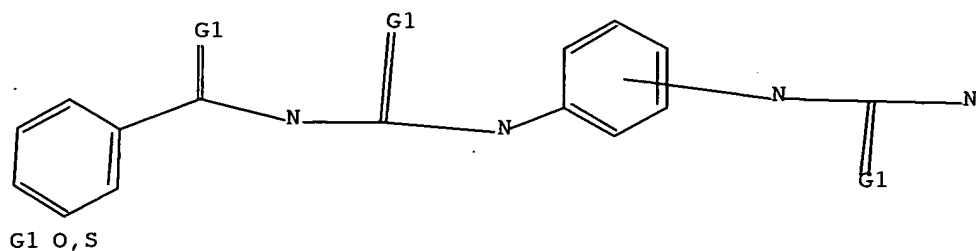
22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:Atom

L1 STRUCTURE UPLOADED

=> dis l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam

L2 21 SEA SSS SAM L1

=> s l1 full

L3 386 SEA SSS FUL L1

=> file caplus

=> s l3

L4 39 L3

=> dis 15 1-34 bib abs hitstr

L5 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:506002 CAPLUS Full-text

DN 137:370017

TI A facile synthesis of p-Bis(4-thiazolidinon-3-yl)phenylenes and related systems

AU Abdel-Megid, M.; Awas, M. A. A.

CS Chemistry Department, Faculty of Education, Ain-Shams University, Cairo, Egypt

SO Heterocyclic Communications (2002), 8(2), 161-168

CODEN: HCOMEX; ISSN: 0793-0283

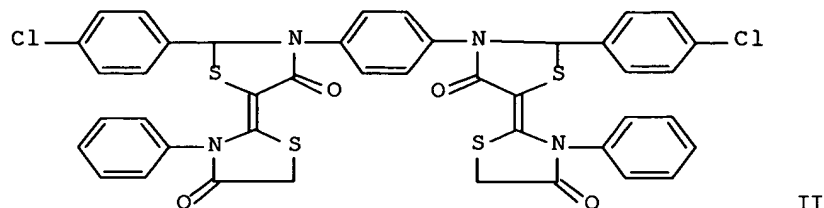
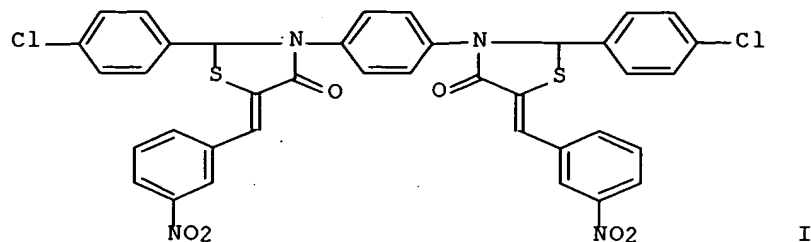
PB Freund Publishing House Ltd.

DT Journal

LA English

OS CASREACT 137:370017

GI



AB P-Bis(4-thiazolidinon-3-yl)phenylenes, e.g., I and II, were synthesized by cycloaddn. of thioglycolic acid with Schiff bases of p-phenylenediamine or by treatment of p-bis(thioureido)phenylenes with Et chloroacetate. Reactions of hydrazines, hydroxylamine, acetamidine and N-phenylthiourea with I and II were reported. Some of the new compds. were tested for their effect on cellobiase, produced by thermophilic fungi.

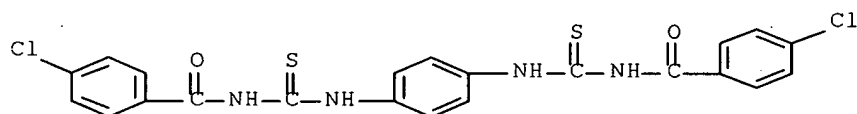
IT 493026-96-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of p-bis(4-thiazolidinon-3-yl)phenylenes and related systems and their effect on fungal cellobiase)

RN 493026-96-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[4-chloro- (9CI) (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:437635 CAPLUS Full-text

DN 138:137007

TI Phase transfer catalytic synthesis of phenylene-1,4-bis-  
aroyl(aryloxyacetyl)thiourea derivatives

AU Deng, Hong-tao; Ye, Wen-fa; Wang, Yan-gang

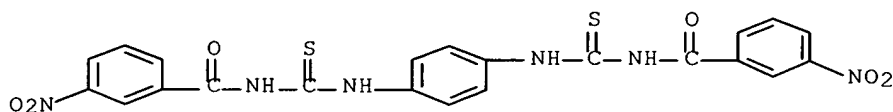
CS Department of Chemistry, Central China Normal University, Wuhan, 430079,  
Peop. Rep. China

SO Huazhong Shifan Daxue Xuebao Ziranhexueban (2002), 36(1), 58-60  
CODEN: HDZKEL; ISSN: 1000-1190

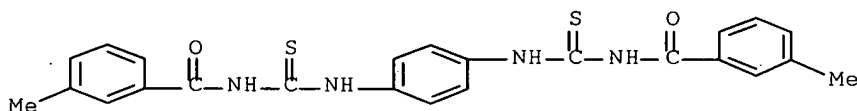
PB Huazhong Shifan Daxue Xuebao Bianjibu

DT Journal

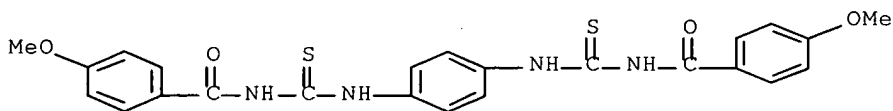
LA Chinese  
 OS CASREACT 138:137007  
 AB Using p-phenylenediamine and arom. acid or aryloxyacetic acid as raw materials, PEG-600 as catalyst, ten new phenylene-1,4-bis-aryloyl(aryloxyacetyl)thiourea derivs. have been synthesized by solid-liquid phase transfer catalysis. Title compds. showed plant growth regulator activities.  
 IT 331862-02-3P 493026-92-9P 493026-94-1P  
 493026-96-3P 493026-98-5P 493027-01-3P  
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (phase transfer catalytic synthesis of phenylene-1,4-bis-aryloyl(aryloxyacetyl)thiourea derivs.)  
 RN 331862-02-3 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3-nitro- (9CI)  
 (CA INDEX NAME)



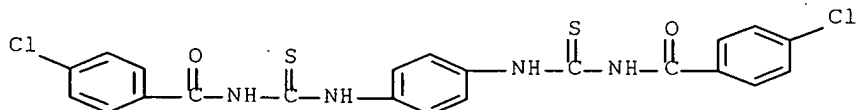
RN 493026-92-9 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3-methyl- (9CI)  
 (CA INDEX NAME)



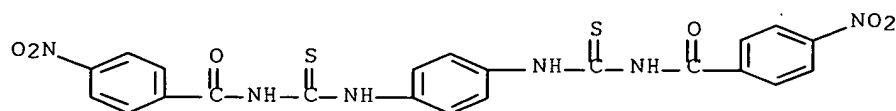
RN 493026-94-1 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[4-methoxy- (9CI)  
 (CA INDEX NAME)



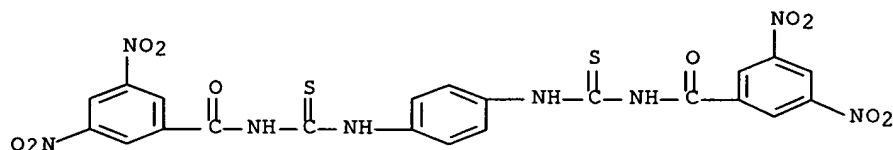
RN 493026-96-3 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[4-chloro- (9CI)  
 (CA INDEX NAME)



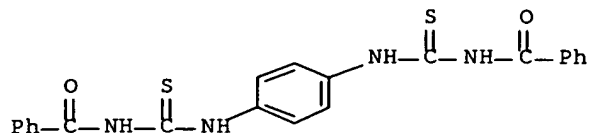
RN 493026-98-5 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[4-nitro- (9CI)  
 (CA INDEX NAME)



RN 493027-01-3 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3,5-dinitro- (9CI)  
 (CA INDEX NAME)

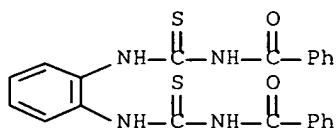


L5 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2001:76696 CAPLUS Full-text  
 DN 134:266079  
 TI Phase transfer catalyzed synthesis of arene-bis-aroyl thiourea derivatives  
 AU Zhang, You-Ming; Wei, Tai-Bao; Gao, Li-Ming  
 CS Department of Chemistry, Northwest Normal University, Lanzhou, 730 070,  
 Peop. Rep. China  
 SO Indian Journal of Chemistry, Section B: Organic Chemistry Including  
 Medicinal Chemistry (2000), 39B(9), 700-702  
 CODEN: IJSBDB; ISSN: 0376-4699  
 PB National Institute of Science Communication, CSIR  
 DT Journal  
 LA English  
 OS CASREACT 134:266079  
 AB Reaction of 4.5 mmol arene diamines [1,2- and 1,4-(H<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>, 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>-4, 4-H<sub>2</sub>N-3-MeC<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>4</sub>Me-3-NH<sub>2</sub>-4] with 10 mmol aroyl chloride RCOC<sub>1</sub> (R = Ph, m-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>, 2-furyl) and 15 mmol ammonium thiocyanate in 25 mL CH<sub>2</sub>Cl<sub>2</sub> under the conditions of solid-liquid phase transfer catalysis using 3% (with respect to NH<sub>4</sub>SCN) polyethylene-glycol- 600 (PEG-600) as the catalyst furnishes 12 arene-bis-aroyl thioureas in good to excellent (86-98%) yields. E.g., reaction of BzCl with 1,4-(H<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>4</sub> and NH<sub>4</sub>SCN in CH<sub>2</sub>Cl<sub>2</sub> containing PEG-600 gave 98% p-BzNHC(S)NHC<sub>6</sub>H<sub>4</sub>NHC(S)NHBz. The products were characterized by anal. and spectral (IR and <sup>1</sup>H NMR) data.  
 IT 70110-39-3P 87874-16-6P 331862-02-3P  
 331862-04-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (phase-transfer carbamoylation of in-situ formed aroyl isothiocyanates  
 with arene diamines)  
 RN 70110-39-3 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA  
 INDEX NAME)



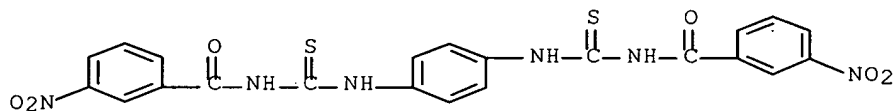
RN 87874-16-6 CAPLUS

CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



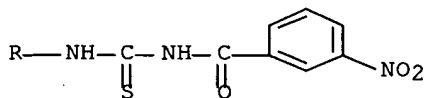
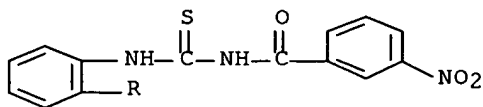
RN 331862-02-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3-nitro- (9CI) (CA INDEX NAME)]



RN 331862-04-5 CAPLUS

CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis[3-nitro- (9CI) (CA INDEX NAME)]



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:463015 CAPLUS Full-text

DN 131:151789

TI Optical recording medium including carbonylthiourea derivative and its

coloring method  
 IN Aoki, Izuo; Sakamoto, Yasuko; Ohsawa, Michiyo  
 PA Nippon Soda Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

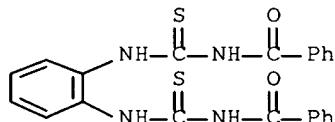
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11198547	A2	19990727	JP 1998-17831	19980114 <--
PRAI	JP 1998-17831		19980114		

AB The medium contains a coloring (preferably a leuco) dye and a compd. bearing NHCSNHCO group, and is colored by pressure application, heating, or by photoirradn.

IT 87874-16-6  
 RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (developer; optical recording medium including fluoran-type leuco dye and carbonylthiourea derivative as developer)

RN 87874-16-6 CAPLUS

CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1998:104912 CAPLUS Full-text  
 DN 128:154466  
 TI Synthesis, characterization and electrical conductivity of polyesters, polyamides and doped polymers  
 AU Bhatt, Vasishta D.; Ray, Arabinda  
 CS Department of Chemistry, S.P. University, Vallabh Vidyanagar, 388120, India  
 SO Synthetic Metals (1998), 92(2), 115-120  
 CODEN: SYMEDZ; ISSN: 0379-6779  
 PB Elsevier Science S.A.  
 DT Journal  
 LA English  
 AB Polyamides and polyesters contg. azomethyne linkages were prepd. by condensation from thioamide monomers and acid chlorides and from Schiff's bases and terephthalic acid chloride and isophthalic acid chloride, resp. The elec. conductivity of the resulting conducting polymers was studied using simple PPP [PPP] calcns. and exptl. measurements. The UV spectra of monomers and polymers indicate  $\pi - \pi^*$  transitions, however, no correlation could be obtained of this transition and conductivity. A reasonably good correlations was obtained between the conductivity of the polymers and the frontier electron d. at the C\* atom, from the LUMO [LUMO] and the next higher unoccupied orbital of the repeating unit. Upon doping with Ag, the elec. conductivity all polymers increased significantly, which is attributed to

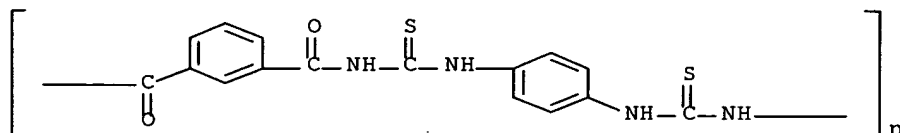
contributions of all unoccupied orbitals of adjacent repeating units to the C\* atom.

IT 70113-14-3P 202803-51-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and electronic structure and elec. conductivity of undoped and silver-doped azomethyne group-containing polyester and thio group containing polyamide conducting polymers)

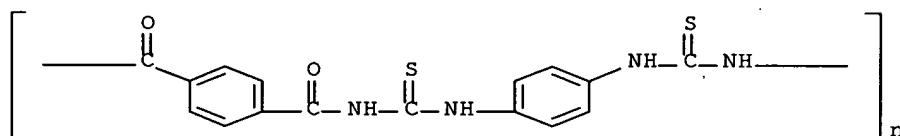
RN 70113-14-3 CAPLUS

CN Poly(iminocarbonothioylimino-1,4-phenyleneiminocarbonothioyliminocarbonyl-1,3-phenylenecarbonyl) (9CI) (CA INDEX NAME)



RN 202803-51-8 CAPLUS

CN Poly(iminocarbonothioylimino-1,4-phenyleneiminocarbonothioyliminocarbonyl-1,4-phenylenecarbonyl) (9CI) (CA INDEX NAME)



RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:526587 CAPLUS Full-text

DN 122:267065

TI Compounds containing two thiourea groups and their use in near-infrared absorbers and heat-blocking materials

IN Hayasaka, Hideki; Takano, Toshiyuki; Satake, Toshimi

PA Nippon Paper Industries Co., Ltd., Japan

SO Eur. Pat. Appl., 47 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 611754	A1	19940824	EP 1994-301189	19940218 <--
	EP 611754	B1	19980422		
	R: DE, FR, IT				
	JP 06299139	A2	19941025	JP 1993-199664	19930811 <--
	JP 3603315	B2	20041222		
	AU 9455219	A1	19940825	AU 1994-55219	19940218 <--
	AU 683031	B2	19971030		
	US 5723075	A	19980303	US 1996-634126	19960419 <--



PRAI JP 1993-30954 A 19930219  
 JP 1993-199664 A 19930811  
 US 1994-197948 B1 19940217

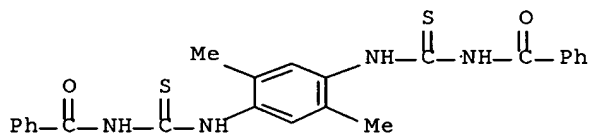
OS MARPAT 122:267065

AB Thiourea derivs. RNHCSNHZ1AZ2NHCSNHR and RNHCSNHZ3NHCSNHR (R = alkyl, aralkyl, aryl, acyl, alkenyl, alkoxy carbonyl, etc.; A = CH<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>, S, O, CONH, NH, etc.; Z1-2 = 1,4-phenylene optionally substituted by alkyl, nitro, cyano, and/or halo groups; Z3 = arylene or substituted arylene) having high decomposition temps. are prepared and used with Cu compds. in resin moldings which absorb near-IR radiation. Reacting PhCH<sub>2</sub>NCS with bis(4-aminophenyl)methane gave (PhCH<sub>2</sub>NHCSNH-p-C<sub>6</sub>H<sub>4</sub>)<sub>2</sub>CH<sub>2</sub> (decomposition temperature 210.5°) which was mixed with CU stearate and polystyrene at 190° and extruded to give a near-IR absorber.

IT 162781-28-4P  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)  
 (preparation and use as heat-resistant near-IR absorbers)

RN 162781-28-4 CAPLUS

CN Benzamide, N,N'-[(2,5-dimethyl-4,1-phenylene)bis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1991:134953 CAPLUS Full-text

DN 114:134953

TI Mononuclear and binuclear nickel(II) chelates of some thiocarbamides

AU Abu El-Reash, G. M.; Taha, F. I.; Badr, G. E.

CS Fac. Sci., Mansoura Univ., Mansoura, Egypt

SO Bulletin de la Societe Chimique de France (1990), (May-June), 387-90  
 CODEN: BSCFAS; ISSN: 0037-8968

DT Journal

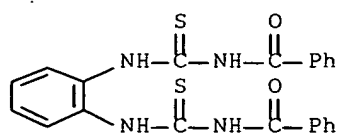
LA English

AB Ni(II) complexes of known thiocarbamides were prepd. from the reaction of benzoylisothiocyanate with 2-aminopyridine, 3-aminopyridine (H2L), 2,3-diaminopyridine, 2,6-diaminopyridine, o-phenylenediamine (H2L1), and ethylenediamine (H2L2). These complexes characterized by elemental analyses, molar conductivities, magnetic moments and spectral (visible, IR) measurements. IR spectra show that the ligands behave as a dianionic or neutral tetradentate ligand, as monoanionic tridentate ligand or as neutral bidentate ligand. Magnetic measurements and spectral anal. suggest that Ni(L1) and [Ni(L2)]<sub>2</sub> are square plane, Ni(HL).2H<sub>2</sub>O is associated with a tetrahedral-square planar isomerism and the other complexes are tetragonally distorted octahedra. All the complexes are nonelectrolytes.

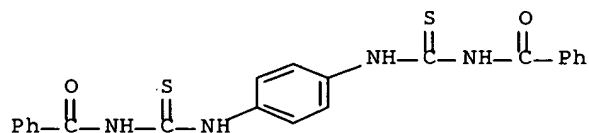
IT 87874-16-6  
 RL: PRP (Properties)  
 (IR spectrum of)

RN 87874-16-6 CAPLUS

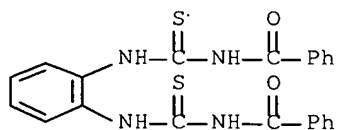
CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1990:244915 CAPLUS Full-text  
 DN 112:244915  
 TI Complexes of copper(II) with some new thiocarbamide derivatives  
 AU Abu El-Reash, Gaber M.; Taha, Fatma I.; Badr, Gamila  
 CS Fac. Sci., Mansoura Univ., Mansoura, Egypt  
 SO Transition Metal Chemistry (Dordrecht, Netherlands) (1990),  
 15(2), 116-19  
 CODEN: TMCHDN; ISSN: 0340-4285  
 DT Journal  
 LA English  
 AB A new series of thiocarbamides was prepd. by the reaction of  
 benzoylisothiocyanate with 2-aminopyridine, 3-aminopyridine, 2,3-  
 diaminopyridine, 2,6-diaminopyridine, o-phenylenediamine, p-phenylenediamine,  
 and ethylenediamine. The Cu(II) complexes of these ligands were isolated and  
 characterized by elemental analyses, molar conductivities, magnetic moments  
 and spectral (visible, IR) measurements. IR spectra show that the ligands  
 behave as dianionic or neutral tetradentates or as monoanionic, or neutral  
 bidentates. [Cu(HL)Cl]<sub>2</sub> (H<sub>2</sub>L = RNHCSNHBz (R = 2-pyridyl)) and Cu(H<sub>2</sub>L<sub>1</sub>)Cl<sub>2</sub>  
 (H<sub>2</sub>L<sub>1</sub> = R<sub>1</sub>(NHCSNHBz)<sub>2</sub> (R<sub>1</sub> = 2,6-pyridinediyl)) are diamagnetic and the other  
 complexes have normal magnetic moment at room temperature Electronic spectral  
 analyses show that Cu<sub>2</sub>(L<sub>1</sub>)(OAc)<sub>2</sub> is planar and the other complexes are  
 tetragonally distorted octahedral. All the complexes are nonelectrolytes.  
 IT 70110-39-3P 87874-16-6P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and IR spectrum of)  
 RN 70110-39-3 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA  
 INDEX NAME)

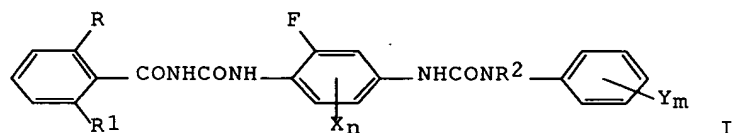


RN 87874-16-6 CAPLUS  
 CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA  
 INDEX NAME)



L5 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1989:553377 CAPLUS Full-text  
 DN 111:153377  
 TI Benzoylurea derivatives as insecticides and acaricides and their preparation  
 IN Kariya, Akinori; Nanjo, Katsumi; Katsurayama, Takayoshi  
 PA Agro-Kanesho Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01034953	A2	19890206	JP 1987-190899	19870730 <--
PRAI	JP 1987-190899		19870730		
OS	MARPAT 111:153377				
GI					



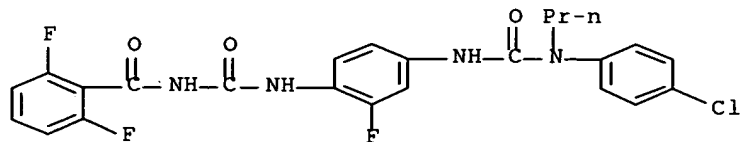
AB The title compds. I (R = halo; R1 = halo, H; X = H, halo, lower alkyl; n = 0, 1; R2 = lower alkyl, alkenyl; Y = H, halo, lower alkyl, alkoxy, etc.; m = 0-3), useful as insecticides and acaricides, were prepared. A mixture of N-(3-fluoro-4-aminophenyl)-N'-(4-chlorophenyl)-N'-propylurea and 2,6-difluorobenzoyl isocyanate in ether was stirred at room temperature for 30 min to give I (R = R1 = F, Xn = H, R2 = Pr, Ym = 4-Cl) (II). At 500 ppm, II gave complete control of *Plutella xylostella* larvae. A wettable powder containing II 40, SiO2 2, clay 53, Na alkylbenzenesulfonate 2, and naphthalenesulfonic acid formalin condensation product 3 parts was prepared.

IT 122815-63-8P 122815-64-9P 122815-65-0P  
 122815-66-1P 122815-67-2P 122815-68-3P  
 122815-69-4P 122815-70-7P 122815-71-8P  
 122815-72-9P 122815-73-0P 122815-74-1P  
 122815-75-2P 122815-76-3P 122815-77-4P  
 122815-78-5P 122815-79-6P 122815-80-9P  
 122815-81-0P 122815-82-1P 122815-83-2P  
 122815-84-3P 122815-85-4P 122815-86-5P  
 122815-87-6P 122815-88-7P 122815-89-8P  
 122829-04-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as insecticide and acaricide)

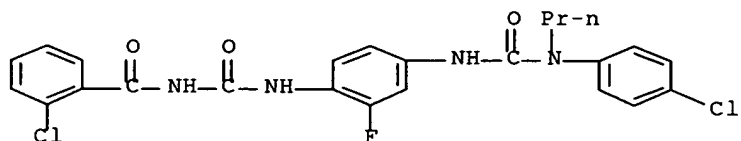
RN 122815-63-8 CAPLUS

CN Benzamide, N-[[[4-[[[4-(4-chlorophenyl)propylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



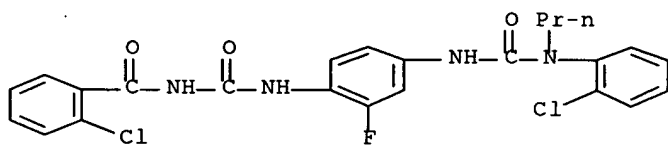
RN 122815-64-9 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



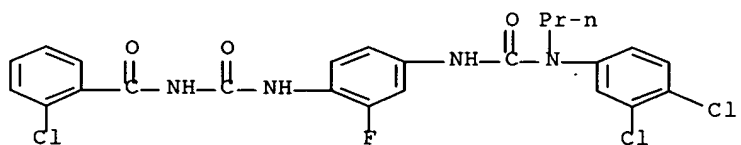
RN 122815-65-0 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(2-chlorophenyl)propylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



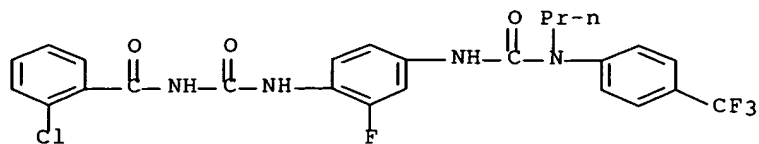
RN 122815-66-1 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(3,4-dichlorophenyl)propylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



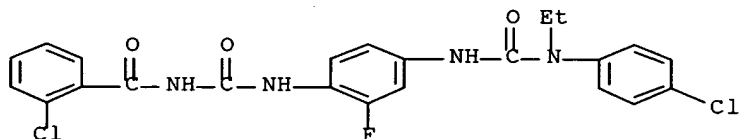
RN 122815-67-2 CAPLUS

CN Benzamide, 2-chloro-N-[[[2-fluoro-4-[[[propyl[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



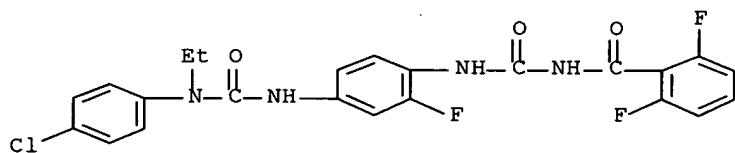
RN 122815-68-3 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



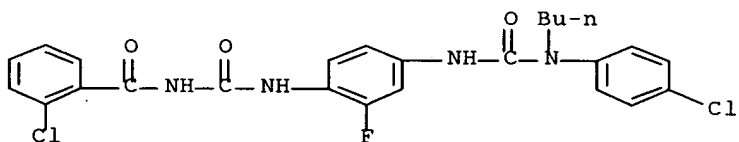
RN 122815-69-4 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



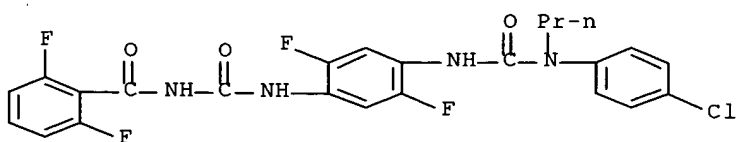
RN 122815-70-7 CAPLUS

CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



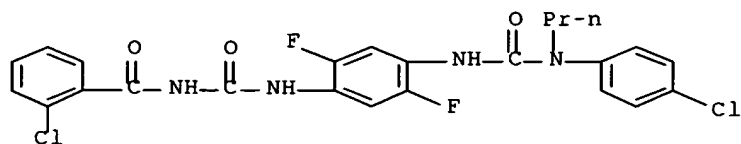
RN 122815-71-8 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



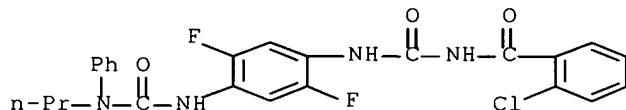
RN 122815-72-9 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



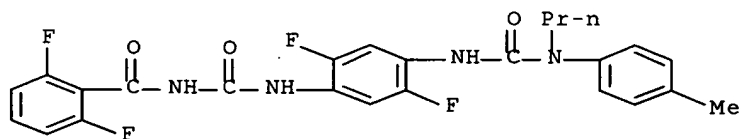
RN 122815-73-0 CAPLUS

CN Benzamide, 2-chloro-N-[[[2,5-difluoro-4-[[[(phenylpropylamino)carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



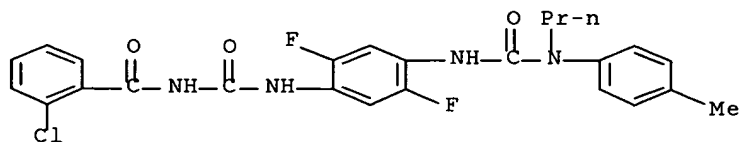
RN 122815-74-1 CAPLUS

CN Benzamide, N-[[[2,5-difluoro-4-[[[(4-methylphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



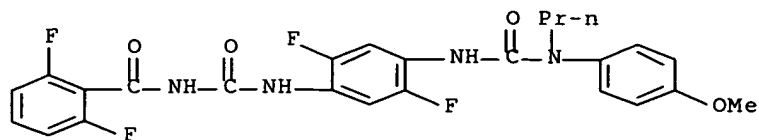
RN 122815-75-2 CAPLUS

CN Benzamide, 2-chloro-N-[[[2,5-difluoro-4-[[[(4-methylphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



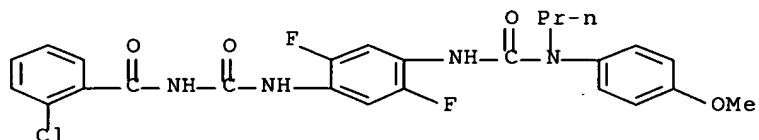
RN 122815-76-3 CAPLUS

CN Benzamide, N-[[[2,5-difluoro-4-[[[(4-methoxyphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



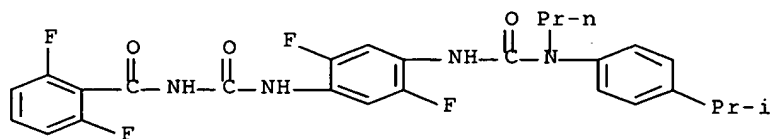
RN 122815-77-4 CAPLUS

CN Benzamide, 2-chloro-N-[[[2,5-difluoro-4-[[[4-methoxyphenyl]propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI)  
(CA INDEX NAME)



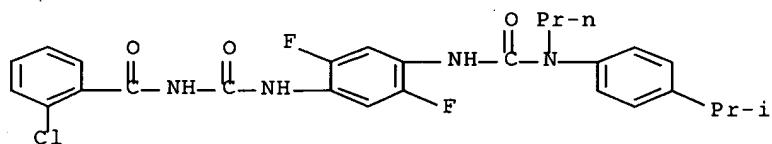
RN 122815-78-5 CAPLUS

CN Benzamide, N-[[[2,5-difluoro-4-[[[4-(1-methylethyl)phenyl]propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



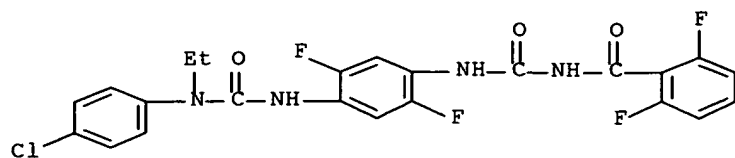
RN 122815-79-6 CAPLUS

CN Benzamide, 2-chloro-N-[[[2,5-difluoro-4-[[[4-(1-methylethyl)phenyl]propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



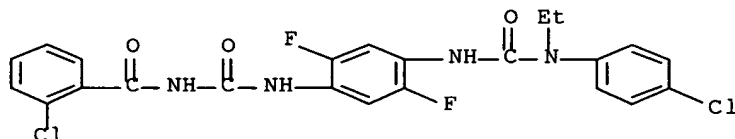
RN 122815-80-9 CAPLUS

CN Benzamide, N-[[[4-[[[4-chlorophenyl]ethylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



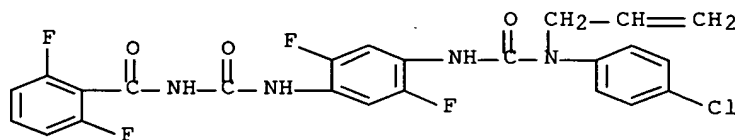
RN 122815-81-0 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



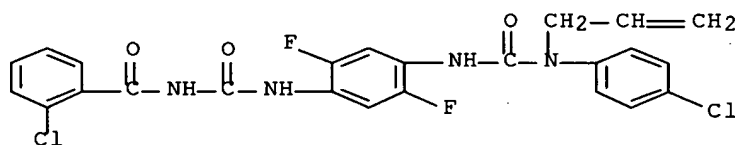
RN 122815-82-1 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)-2-propenylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 122815-83-2 CAPLUS

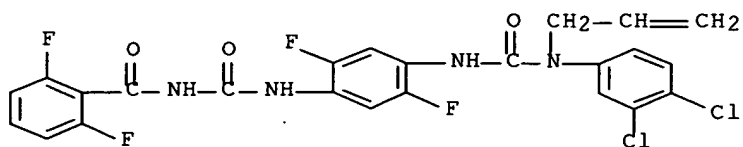
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)-2-propenylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 122815-84-3 CAPLUS

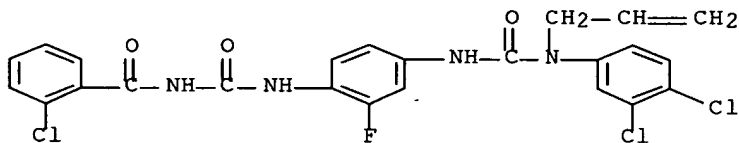
CN Benzamide, N-[[[4-[[[(3,4-dichlorophenyl)-2-propenylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)





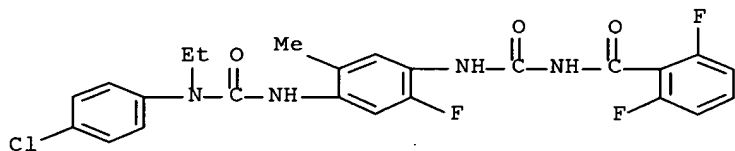
RN 122815-85-4 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(3,4-dichlorophenyl)-2-propenylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



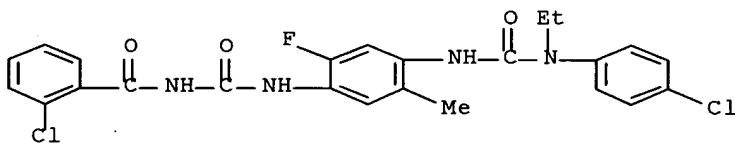
RN 122815-86-5 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2-fluoro-5-methylphenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



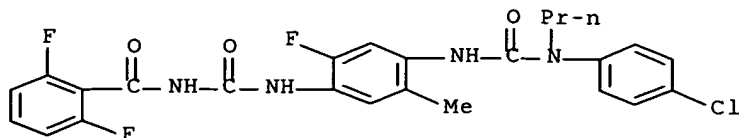
RN 122815-87-6 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2-fluoro-5-methylphenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



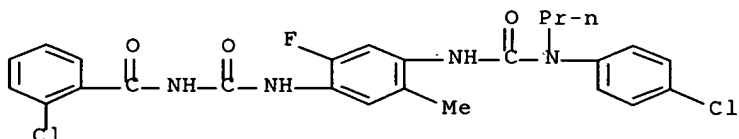
RN 122815-88-7 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2-fluoro-5-methylphenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



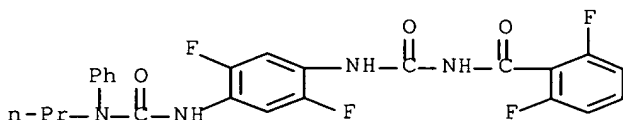
RN 122815-89-8 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2-fluoro-5-methylphenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 122829-04-3 CAPLUS

CN Benzamide, N-[[[2,5-difluoro-4-[[[(phenylpropylamino)carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



L5 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1988:160301 CAPLUS Full-text

DN 108:160301

TI Studies on the transition metal thiocyanate complexes with thioureas containing sulfur-sulfur and oxygen-sulfur-sulfur-oxygen donor sequences

AU Tembe, G. L.; Murty, A. S. R.

CS Dep. Chem., Karnatak Univ., Dharwad, 580 003, India

SO Current Science (1987), 56(24), 1277-9

CODEN: CUSCAM; ISSN: 0011-3891

DT Journal

LA English

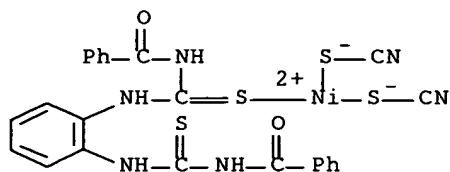
AB ML(SCN)<sub>2</sub> [M = Co, Ni, L = BzNHC(S)NH(CH<sub>2</sub>)<sub>2</sub>NHC(S)NHBz, o-C<sub>6</sub>H<sub>4</sub>(NHC(S)NHPh)<sub>2</sub>; m = Ni, L = o- and p-C<sub>6</sub>H<sub>4</sub>(NHC(S)NHBz)<sub>2</sub>] were prepared. The complexes were characterized by molar conductivity and magnetic moment data, IR and electronic spectra and thermal anal. The ligands coordinate through the S atoms. Ligand field parameters were calculated. The Ni complexes are octahedral and the Co complexes are 4 coordinate.

IT 113804-06-1P 113804-07-2P 113804-09-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and ligand field parameters of)

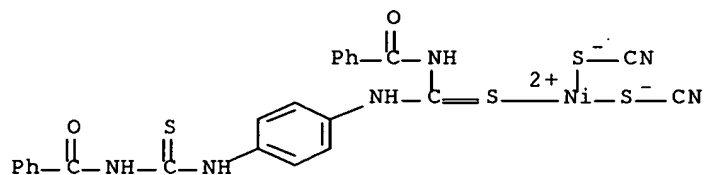
RN 113804-06-1 CAPLUS

CN Nickel, [N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis[benzamide]-S]bis(thiocyanato-S)- (9CI) (CA INDEX NAME)



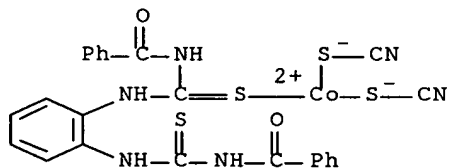
RN 113804-07-2 CAPLUS

CN Nickel, [N,N'-(1,4-phenylenebis(iminocarbonothioyl))bis(benzamide)-S]bis(thiocyanato-S)- (9CI) (CA INDEX NAME)



RN 113804-09-4 CAPLUS

CN Cobalt, [N,N'-(1,2-phenylenebis(iminocarbonothioyl))bis(benzamide)-S]bis(thiocyanato-S)- (9CI) (CA INDEX NAME)



L5 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1987:42838 CAPLUS Full-text

DN 106:42838

TI Binucleating bis-N-acylthioureas - ligands in trimetallamacrocycles and polynuclear metal chelates

AU Koehler, R.; Kirmse, R.; Richter, R.; Sieler, J.; Hoyer, E.; Beyer, L.

CS Sekt. Chem., Karl-Marx-Univ., Leipzig, Fed. Rep. Ger.

SO Zeitschrift fuer Anorganische und Allgemeine Chemie (1986), 537, 133-44

CODEN: ZAACAB; ISSN: 0044-2313

DT Journal

LA German

AB By sym. linking of 2 bidentate N-acylthioureas 2 types of quadridentate bis-N-acylthioureas are available which act, after di-deprotonation as bis-bidentate S, O ligands towards polyvalent metal ions. They can form oligomeric or polymeric, cyclic or chain chelates. With 1,1,1',1'-tetraalkyl-3,3'-terephthaloylbisthioureas (H2L) oligomeric triangulo-trimetallamacrocycles Ni3L3 and Cu3L3 were obtained. They contain perimetric 27-membered rings, counting the internal oxygens, or 39-membered rings with the external S atoms on the other hand, i.e. equal chalcogen atoms are in cis-positions within each chelate unit around the 3 metal ions. The trimetallamacrocyclic structure was

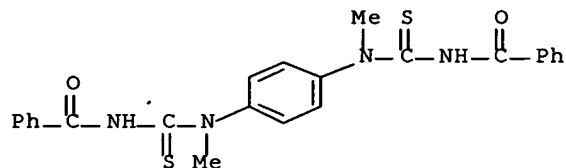
proved by x-ray crystal and mol. structure anal. of Ni3L3 (alkyl = Et) or EPR of the corresponding Cu3L3. Diamine-linked bis-N-acylthioureas form insol. 1:1 polymeric chelates.

IT 104359-19-5P 104359-20-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

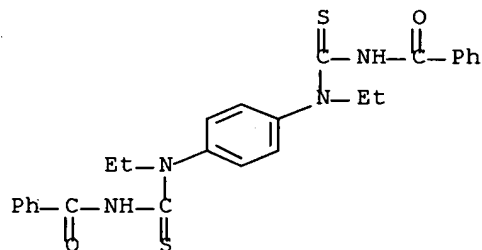
RN 104359-19-5 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis[(methylimino)carbonothioyl]]bis- (9CI)  
(CA INDEX NAME)



RN 104359-20-8 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis[(ethylimino)carbonothioyl]]bis- (9CI)  
(CA INDEX NAME)



L5 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1987:18148 CAPLUS Full-text

DN 106:18148

TI N,N'-disubstituted bisacylthiourea derivatives

IN Beyer, Lothar; Koehler, Ronald; Hoyer, Eberhard; Hartung, Juergen

PA Karl-Marx-Universitaet Leipzig, Ger. Dem. Rep.

SO Ger. (East), 11 pp.

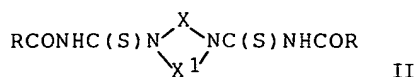
CODEN: GEXXA8

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 229400	A1	19851106	DD 1984-270354	19841206 <--
PRAI	DD 1984-270354		19841206		
GI					



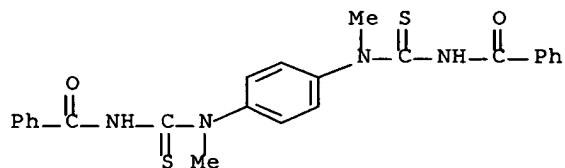
AB The title compds. [RCONHC(S)NR1]2Z [I; R = (un)substituted Ph; R1 = alkyl, aryl; Z = (un)substituted arylene, (CH2)n; n = 2-18] and II [R as above; X, X1 = (CH2)2, CH:CH] are prepared as chelating agents. Thus, 6.5 g BzNCS (preparation given) was added to a solution of 2.6 g N,N'-dimethyl-p-phenylenediamine and 1 g Et3N in 30 mL acetone, to give I (R = Ph, R1 = Me, Z = p-C6H4) (III). III (5 mmol) in 80 mL DMF was added to 1.25 g Ni(OAc)2.4H2O in 150 mL DMF, to give a polymeric III.Ni complex.

IT 104359-19-5P 104359-20-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as chelating agent)

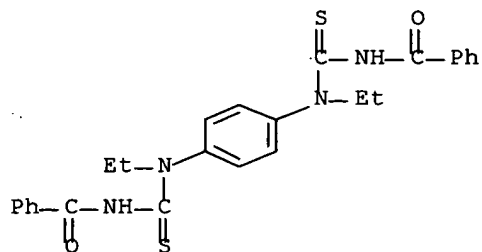
RN 104359-19-5 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis[(methylimino)carbonothioyl]]bis- (9CI)  
(CA INDEX NAME)



RN 104359-20-8 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis[(ethylimino)carbonothioyl]]bis- (9CI)  
(CA INDEX NAME)



L5 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1985:422429 CAPLUS Full-text

DN 103:22429

TI Synthesis and spectroscopic properties of some new N,N'-disubstituted thioureas of potential biological interest

AU Sarkis, George Y.; Faisal, Essam D.

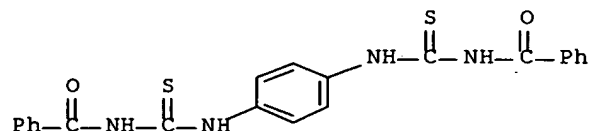
CS Coll. Sci., Univ. Baghdad, Baghdad, Iraq

SO Journal of Heterocyclic Chemistry (1985), 22(1), 137-40

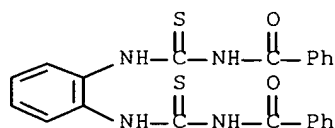
CODEN: JHTCAD; ISSN: 0022-152X

DT Journal

LA English  
 OS CASREACT 103:22429  
 AB Thirty-six N,N'-disubstituted thioureas RNHCSNHR1 [R = Bz, Ph, 4-FC6H4; R1 = (un)substituted Ph, pyridyl, 4-quinolyl] were synthesized by the reaction of RNCS with R1NH2. The UV, IR and NMR spectral data are presented and discussed.  
 IT 70110-39-3P 87874-16-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 70110-39-3 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



RN 87874-16-6 CAPLUS  
 CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



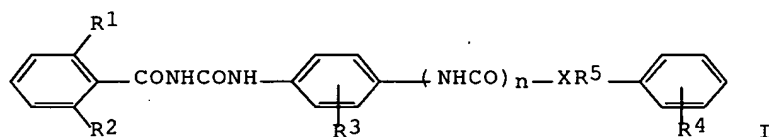
L5 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1984:630162 CAPLUS Full-text  
 DN 101:230162  
 TI Benzoylurea compounds for pesticidal and pharmaceutical use  
 IN Brouwer, Marius S.; Grosscurt, Arnoldus C.  
 PA Duphar International Research B. V., Neth.  
 SO Eur. Pat. Appl., 31 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 116729	A2	19840829	EP 1983-201862	19831230 <--
	EP 116729	A3	19840926		
	EP 116729	B1	19881012		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AT 37869	E	19881015	AT 1983-201862	19831230 <--
	AU 8423614	A1	19840726	AU 1984-23614	19840119 <--
	AU 562260	B2	19870604		
	BR 8400234	A	19840828	BR 1984-234	19840119 <--
	ZA 8400422	A	19840926	ZA 1984-422	19840119 <--
	US 4665235	A	19870512	US 1984-572143	19840119 <--
	CA 1247644	A1	19881227	CA 1984-445614	19840119 <--

10/616,959

DK 8400268	A	19840725	DK 1984-268	19840120 <--
DK 159923	B	19901231		
DK 159923	C	19910521		
DD 219101	A5	19850227	DD 1984-259516	19840120 <--
ES 529033	A1	19850316	ES 1984-529033	19840120 <--
PL 139504	B1	19870131	PL 1984-245840	19840120 <--
HU 35477	O	19850729	HU 1984-263	19840123 <--
HU 193668	B	19871130		
IL 70747	A1	19861130	IL 1984-70747	19840123 <--
JP 59176242	A2	19841005	JP 1984-9592	19840124 <--
JP 04014660	B4	19920313		
CS 242896	B2	19860515	CS 1984-527	19840124 <--
SU 1375125	A3	19880215	SU 1984-3751717	19840618 <--
US 4710516	A	19871201	US 1986-932296	19861119 <--
PRAI NL 1983-238	A	19830124		
EP 1983-201862	A	19831230		
US 1984-572143	A2	19840119		

GI



AB About 74 title compds. I (R1 = halo; R2 = H, halo; R3 = H, or 1-2 substituents selected from Cl, Me, CF3; R4 = H or 1-3 substituents selected from halo, alkyl, alkoxy, haloalkyl, haloalkoxy; X = N, CH; n = 0, 1; R5 = H, C1-6 alkyl, C2-6 alkenyl, C3-6 cycloalkyl; if n = 0, and R5 = H, then R3 = H), insecticides, acaricides, and antitumor agents, were prepared E.g., treating 0.90 g 2,6-F2C6H3CONCO with 1.27 g H2NC6H4NPrC6H4Cl-4 in Et2O at room temperature gave 1.50 g N-(2,6- difluorobenzoyl)-N'-[4-[N-(4-chlorophenyl)-N-propylamino]phenyl]urea (II). At 1 mg/L, II gave 90-91% mortality of larvae of *Pieris brassicae*.

IT 93275-07-1P 93275-08-2P 93275-09-3P  
 93275-35-5P 93275-36-6P 93275-37-7P  
 93275-38-8P 93275-39-9P 93275-40-2P  
 93275-41-3P 93275-42-4P 93275-43-5P  
 93275-44-6P 93275-45-7P 93275-46-8P  
 93275-47-9P 93275-48-0P 93275-49-1P  
 93275-50-4P 93275-51-5P 93275-52-6P  
 93275-53-7P 93275-54-8P 93275-55-9P  
 93275-56-0P 93275-57-1P 93275-58-2P  
 93275-59-3P 93275-60-6P 93275-61-7P  
 93275-62-8P 93275-63-9P 93275-64-0P  
 93275-65-1P 93275-66-2P 93275-71-9P  
 93275-72-0P 93275-73-1P 93275-74-2P  
 93442-91-2P

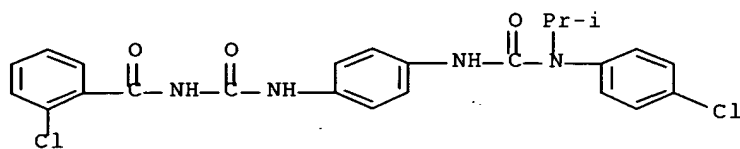
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation, pesticidal activity, and antitumor activity of)

RN 93275-07-1 CAPLUS

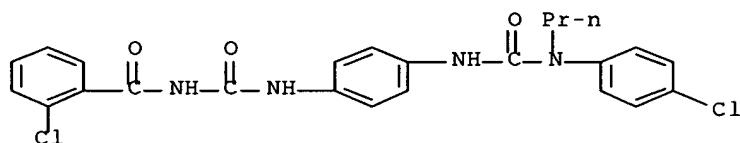
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)(1-

methylethyl)amino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



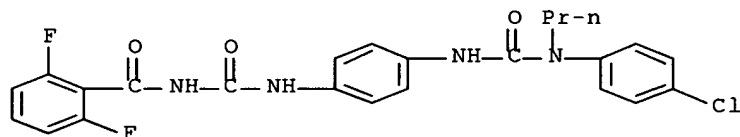
RN 93275-08-2 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



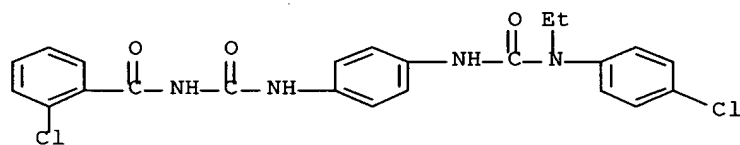
RN 93275-09-3 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-35-5 CAPLUS

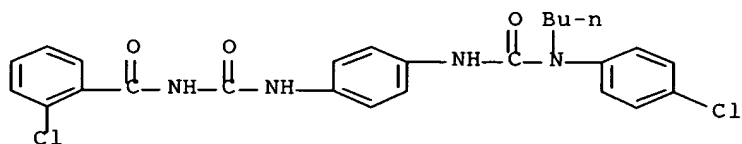
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 93275-36-6 CAPLUS

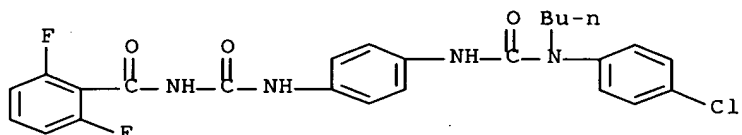
CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)





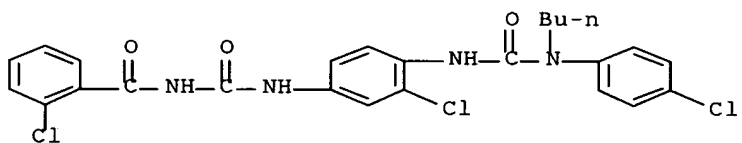
RN 93275-37-7 CAPLUS

CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



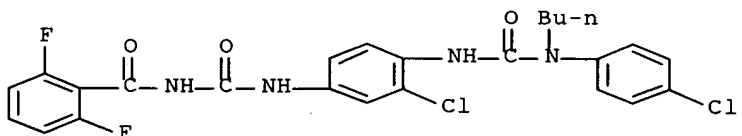
RN 93275-38-8 CAPLUS

CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]-3-chlorophenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



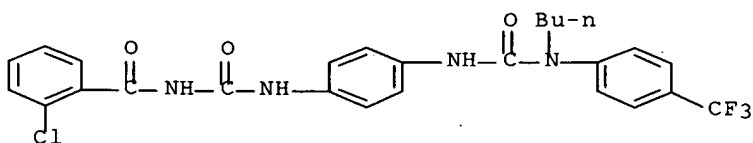
RN 93275-39-9 CAPLUS

CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]-3-chlorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



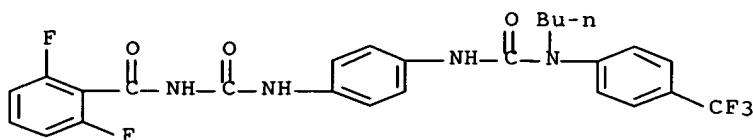
RN 93275-40-2 CAPLUS

CN Benzamide, N-[[[4-[[[butyl[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



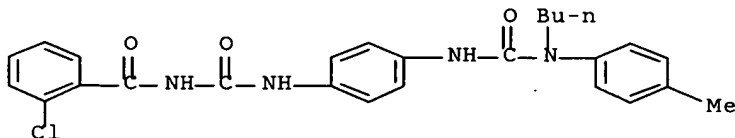
RN 93275-41-3 CAPLUS

CN Benzamide, N-[[[4-[[[butyl[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



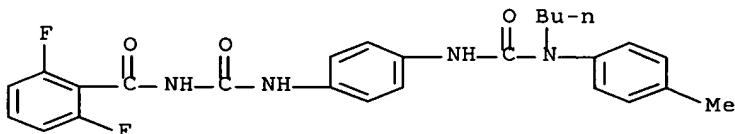
RN 93275-42-4 CAPLUS

CN Benzamide, N-[[[4-[[[butyl(4-methylphenyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



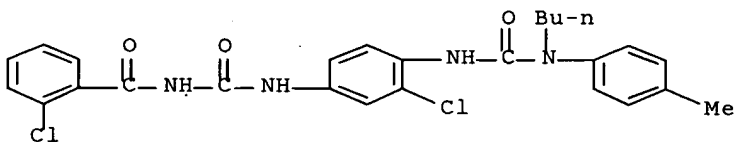
RN 93275-43-5 CAPLUS

CN Benzamide, N-[[[4-[[[butyl(4-methylphenyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



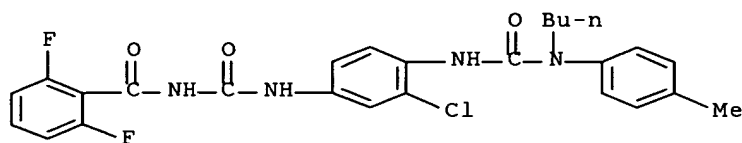
RN 93275-44-6 CAPLUS

CN Benzamide, N-[[[4-[[[butyl(4-methylphenyl)amino]carbonyl]amino]-3-chlorophenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



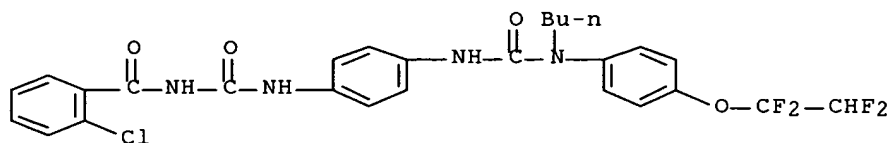
RN 93275-45-7 CAPLUS

CN Benzamide, N-[[[4-[[[butyl(4-methylphenyl)amino]carbonyl]amino]-3-chlorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



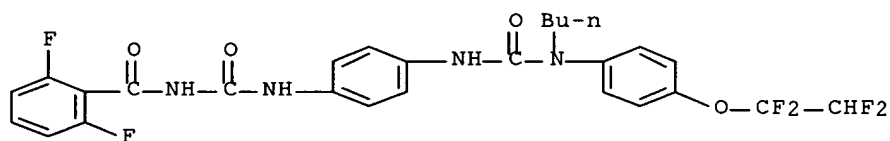
RN 93275-46-8 CAPLUS

CN Benzamide, N-[[[4-[[[butyl[4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



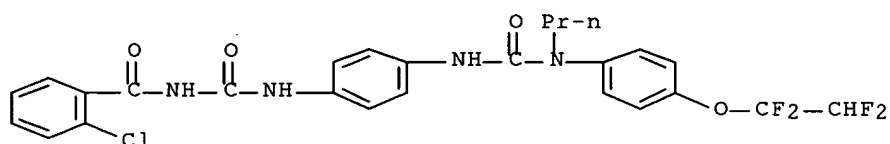
RN 93275-47-9 CAPLUS

CN Benzamide, N-[[[4-[[[butyl[4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-48-0 CAPLUS

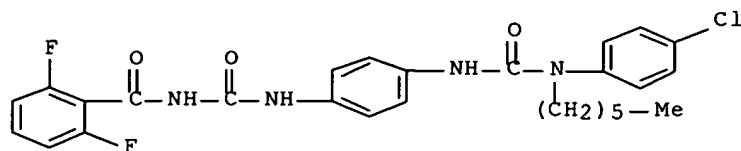
CN Benzamide, 2-chloro-N-[[[4-[[[propyl[4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 93275-49-1 CAPLUS

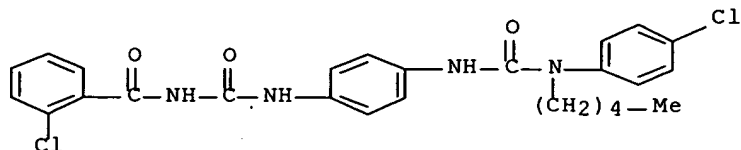
CN Benzamide, 2,6-difluoro-N-[[[4-[[[propyl[4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)





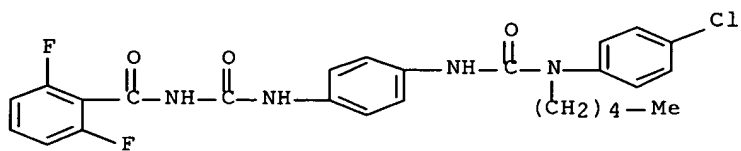
RN 93275-54-8 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)pentylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



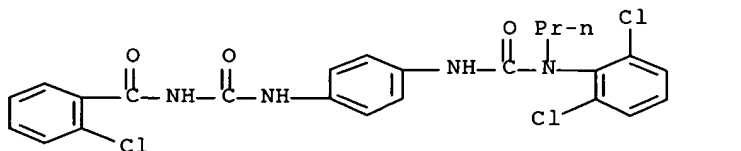
RN 93275-55-9 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)pentylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



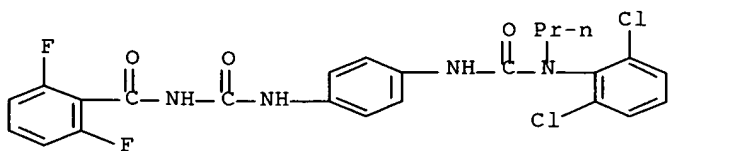
RN 93275-56-0 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(2,6-dichlorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



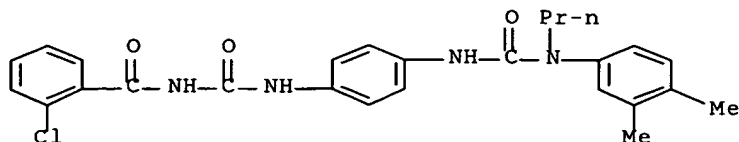
RN 93275-57-1 CAPLUS

CN Benzamide, N-[[[4-[[[(2,6-dichlorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



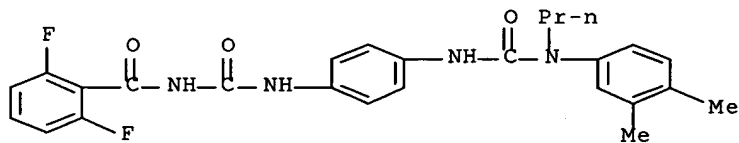
RN 93275-58-2 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(3,4-dimethylphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



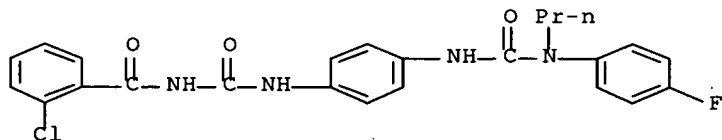
RN 93275-59-3 CAPLUS

CN Benzamide, N-[[[4-[[[(3,4-dimethylphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



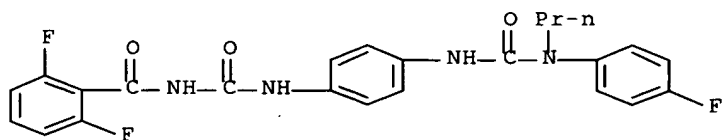
RN 93275-60-6 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-fluorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



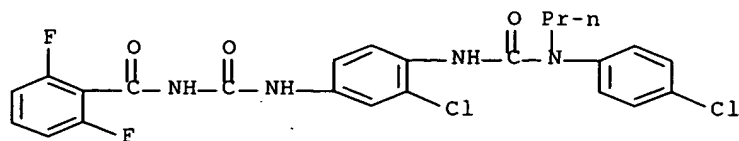
RN 93275-61-7 CAPLUS

CN Benzamide, 2,6-difluoro-N-[[[4-[[[(4-fluorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



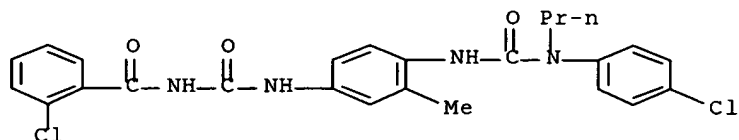
RN 93275-62-8 CAPLUS

CN Benzamide, N-[[[3-chloro-4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



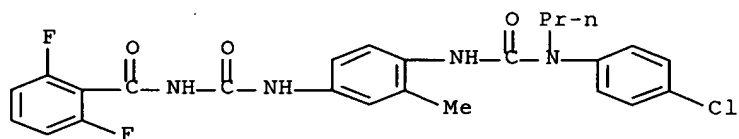
RN 93275-63-9 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3-methylphenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



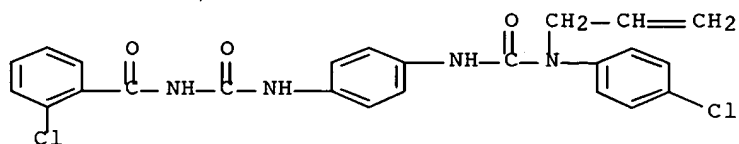
RN 93275-64-0 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3-methylphenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



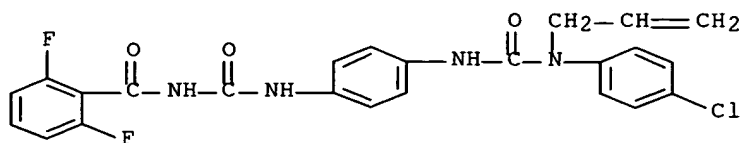
RN 93275-65-1 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)-2-propenylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



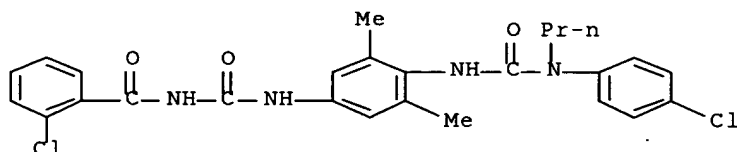
RN 93275-66-2 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)-2-propenylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



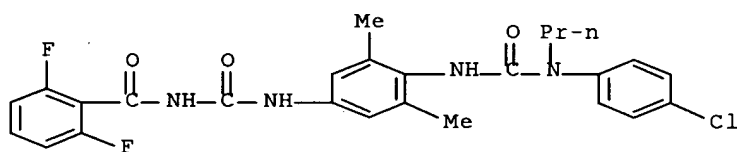
RN 93275-71-9 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3,5-dimethylphenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



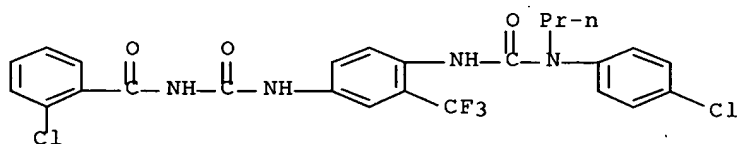
RN 93275-72-0 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3,5-dimethylphenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-73-1 CAPLUS

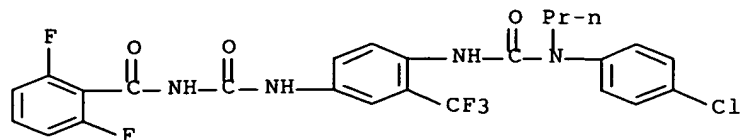
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3-(trifluoromethyl)phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 93275-74-2 CAPLUS

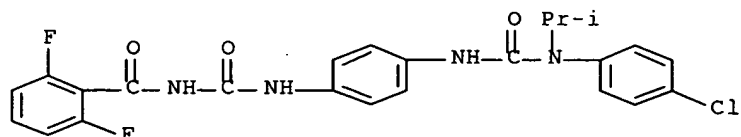
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3-(trifluoromethyl)phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)





RN 93442-91-2 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)(1-methylethyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



L5 ANSWER 15 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1984:6377 CAPLUS Full-text

DN 100:6377

TI Reactions of carbonyl isothiocyanates with nucleophilic bifunctional reagents

AU Uher, Michal; Berkes, Dusan; Lesko, Jan; Floch, Lubomir

CS Dep. Org. Chem., Slovak Inst. Technol., Bratislava, 812 37, Czech.

SO Collection of Czechoslovak Chemical Communications (1983), 48(6), 1651-8

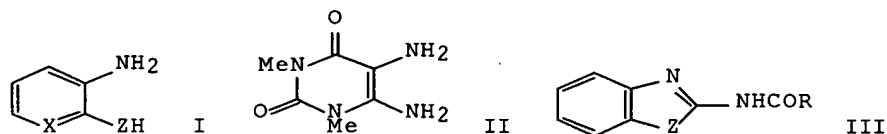
CODEN: CCCCAK; ISSN: 0366-547X

DT Journal

LA English

OS CASREACT 100:6377

GI



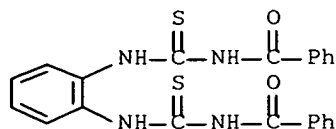
AB Acyl isothiocyanates RCONCS (R = Me, Cl<sub>3</sub>C, Ph, 2-furanyl) condensed with I (X = CH, Z = O, S, NH; X = N, Z = NH) and II to give acylthioureas. Those derived from I (X = CH, Z = S, NH) were cyclized with elimination of H<sub>2</sub>S to give III.

IT 87874-16-6P

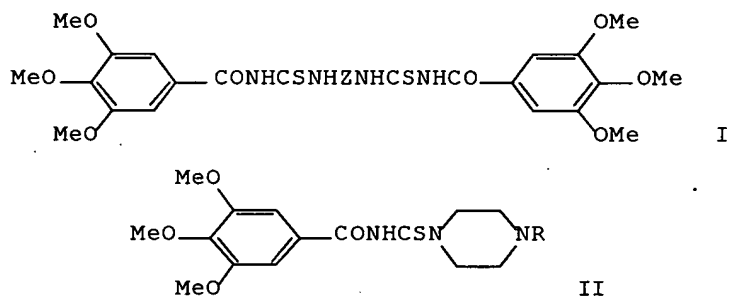
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 87874-16-6 CAPLUS

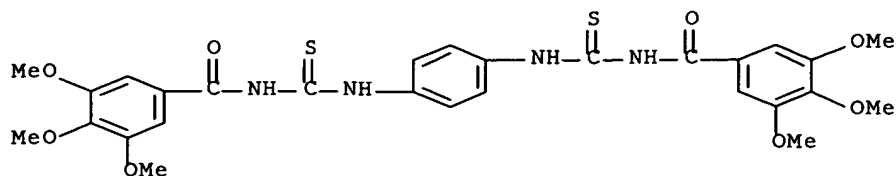
CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1983:487771 CAPLUS Full-text  
 DN 99:87771  
 TI Studies on the alkoxybenzoic acid series. V. 3,4,5-Trimethoxybenzoyl thioureides  
 AU Missir, A.; Zolta, V.; Soare, Jana; Chirita, Ileana; Petrea, I.; Stan, A.  
 CS Lab. Chim. Farm., Fac. Farm., Bucharest, Rom.  
 SO Farmacia (Bucharest, Romania) (1982), 30(4), 225-30  
 CODEN: FRMBAZ; ISSN: 0014-8237  
 DT Journal  
 LA Romanian  
 OS CASREACT 99:87771  
 GI

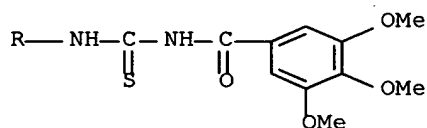
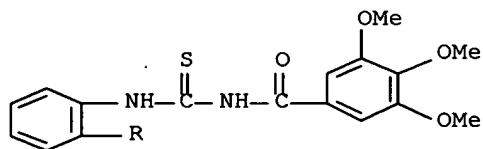


AB Bis-thioureas I [Z = phenylene, methylphenylene, (CH<sub>2</sub>)<sub>n</sub> (n = 2,3,4,5,6)] and benzoylthioureas II [R = 3,4,5-(MeO)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>CONHCS, Ph] were prepared Thus, 3,4,5-(MeO)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>COCl was treated with NH<sub>4</sub>SCN in Me<sub>2</sub>CO, the mixture was heated, o-phenylenediamine in Me<sub>2</sub>CO was added, and the mixture was refluxed to give I (Z = o-phenylene).  
 IT 82925-65-3P 82925-69-7P 82934-52-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 82925-65-3 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



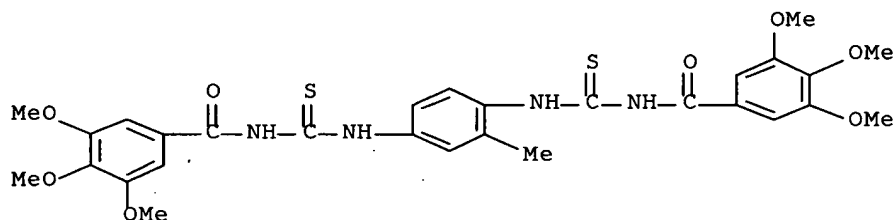
RN 82925-69-7 CAPLUS

CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis[3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



RN 82934-52-9 CAPLUS

CN Benzamide, N,N'-[(2-methyl-1,4-phenylene)bis(iminocarbonothioyl)]bis[3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L5 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1982:555973 CAPLUS Full-text

DN 97:155973

TI Pharmacodynamic study of some new 3,4,5-trimethoxybenzoic acid thioureides. Part VI

AU Cristea, Elena; Missir, A.; Chirita, Ileana; Dan, G.; Georgescu, C.

CS Discip. Farmacodin., Fac. Farm., Bucharest, Rom.

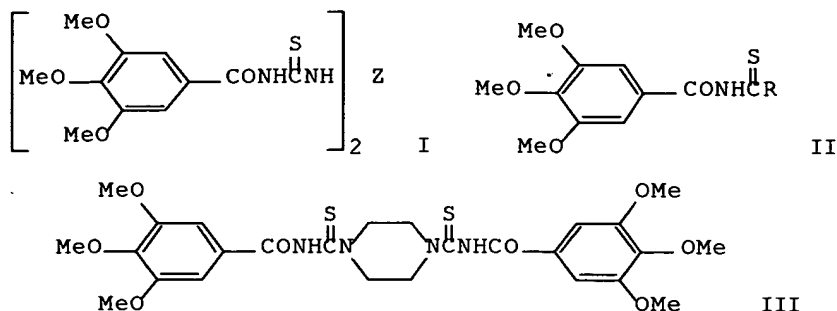
SO Farmacia (Bucharest, Romania) (1982), 30(1), 41-8

CODEN: FRMBAZ; ISSN: 0014-8237

DT Journal

LA Romanian

GI



AB The pharmacol. of 11 title compds. [I(Z = (CH<sub>2</sub>)<sub>n</sub>, n = 2-6, etc.); II (R = 4-Ph-piperazin-1-yl or 2,6-Br<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NH) and III [82925-64-2]] was studied. Among the central nervous system depressing substance were I (Z = p-C<sub>6</sub>H<sub>4</sub>) [82925-65-3], I [Z = (CH<sub>2</sub>)<sub>3</sub>] [82925-66-4], I [Z = (CH<sub>2</sub>)<sub>5</sub>] [82925-67-5], II (R = 4-Ph-piperazin-1-yl, and III. Compds. blocking intestinal motility included I (Z = o-C<sub>6</sub>H<sub>4</sub>) [82925-69-7], I (Z = p-C<sub>6</sub>H<sub>4</sub>), I [Z = (CH<sub>2</sub>)<sub>4</sub>] [82925-70-0], and I (Z = 2-Me-1,4-C<sub>6</sub>H<sub>3</sub>. The compds. had anticholesteremic and antihyperglycemic activities. None of the compds. had greater activity than compds. of the same class previously tested.

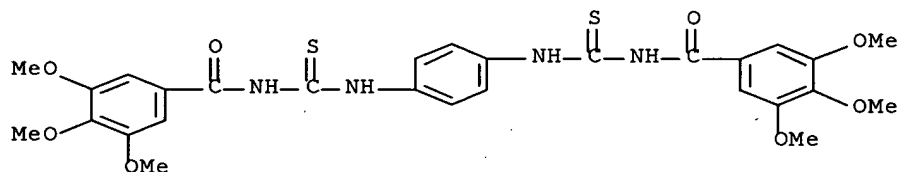
IT 82925-65-3 82925-69-7 82934-52-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmacol. of)

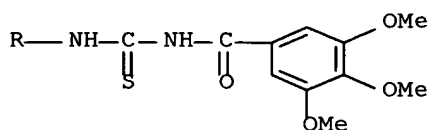
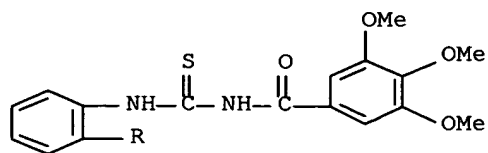
RN 82925-65-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3,4,5-trimethoxy-(9CI) (CA INDEX NAME)



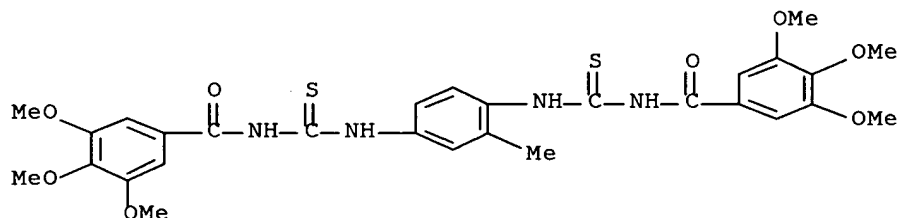
RN 82925-69-7 CAPLUS

CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonothioyl)]bis[3,4,5-trimethoxy-(9CI) (CA INDEX NAME)



RN 82934-52-9 CAPLUS

CN Benzamide, N,N'-[(2-methyl-1,4-phenylene)bis(iminocarbonothioyl)]bis[3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L5 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1982:227948 CAPLUS Full-text

DN 96:227948

TI Complexes of p,p'-bis(benzoylthioureido)benzene with copper(II), nickel(II) and cobalt(II) salts and their biological activity

AU Satpathy, K. C.; Mishra, H. P.; Patel, B. N.

CS P. G. Dep. Chem., Sambalpur Univ., Burla, 768 017, India

SO Journal of the Indian Chemical Society (1982), 59(1), 40-2

CODEN: JICSAH; ISSN: 0019-4522

DT Journal

LA English

AB MLX2 (M = Cu, Ni, Co; L = BzNHC(S)NHC6H4NHC(S)NHBz-p, X = Cl, Br, NO3, ClO4) were prepared and characterized on the basis of IR spectral, electronic spectra and magnetic susceptibility measurements. IR spectra manifest the coordinates of the ligand to the metal ion through carbonyl O and thiocarbonyl S atoms. The complexes possess octahedral stereochem. as inferred from electronic spectral data and magnetic moment values. Fungicidal screening of the complexes shows them to be antifungal against *Aspergillus niger*, *Fusarium oxysporium* and *Helminthosporium oryzae*.

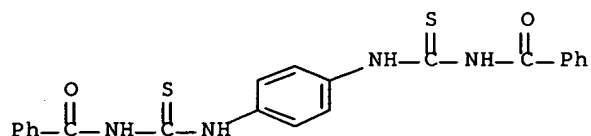
IT 70110-39-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and fungicidal activity of)

RN 70110-39-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1982:85276 CAPLUS Full-text  
 DN 96:85276  
 TI 1-(2-Aminophenyl)-3-phosphonoureas and thio analogs  
 IN Weir, W. David; Kilbourn, Edward E.  
 PA Rohm and Haas Co., USA  
 SO U.S., 14 pp. Division of U.S. 4,183,921.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4276290	A	19810630	US 1979-73249	19790906 <--
	JP 49048641	A2	19740511	JP 1973-60196	19730529 <--
	CA 1017351	A1	19770913	CA 1973-172986	19730601 <--
	AT 7409010	A	19770715	AT 1974-9010	19741111 <--
	AT 342362	B	19780328		
	ES 441218	A1	19770701	ES 1975-441218	19750916 <--
	ES 441218	A5	19770708		
	US 4076809	A	19780228	US 1975-625998	19751028 <--
	US 4183921	A	19800115	US 1977-842645	19771017 <--
PRAI	US 1972-263378	A2	19720605		
	US 1973-354629	A2	19730425		
	US 1975-625998	A3	19751028		
	US 1977-842645	A3	19771017		
	US 1972-259423	A	19720605		
	AT 1973-4588	A	19730525		
	ES 1973-415199	A3	19730525		

OS CASREACT 96:85276; MARPAT 96:85276

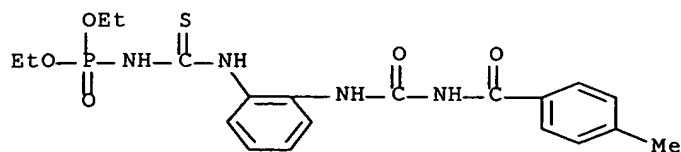
AB Ureas and analogs RZNHC(X)NR1P(X1)R2R3 (R = NH2, heteroarom. acylamino, substituted ureido or thioureido, substituted 3-phosphonoureido and thio analogs; Z = phenylene, naphthalenediyl, anthracenediyl, phenanthrenediyl, diazopinediyl, pyridinediyl, pyrimidinediyl, furandiyl; X = O, S; R1 = H, hydrocarbyl; X1 = O, S; R2 = hydrocarbyl, hydrocarbyloxy, substituted amino, hydrocarbylthio; R3 = Hydrocarbyloxy, substituted amino, hydrocarbylthio), useful as anthelmintics (no data), were prepared Thus, o-phenylenediamine was treated with (EtO)2PONCS to give 2-H2NC6H4NHC(S)NHP(O)(OEt)2.

IT 52406-05-0P 52406-06-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

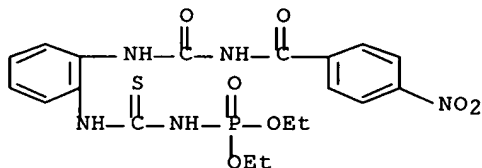
RN 52406-05-0 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 52406-06-1 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-nitrobenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 20 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1979:187379 CAPLUS Full-text

DN 90:187379

TI Synthesis of polyacylthioureas by polyaddition of isophthaloyldiisothiocyanate with diamines

AU Shimano, Yasuo; Sasaki, Shoichi

CS Dep. Ind. Chem., Hachinohe Tech. Coll., Hachinohe, Japan

SO Kobunshi Ronbunshu (1979), 36(2), 81-8

CODEN: KBRBA3; ISSN: 0386-2186

DT Journal

LA Japanese

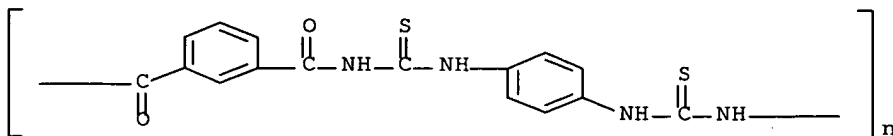
AB Isophthaloyl diisothiocyanate (I) is polymd. with arom. diamines in amide solns. to give polymers having reduced viscosity  $\leq 1.39$  dL/g (30°, 0.5 g/dL in Me2NAC containing 5% LiCl), or I is polymerized with aliphatic diamines by interfacial methods using aromatic solvents to give polymers having reduced viscosity up to 1.21 dL/g. Interfacial polymerization of I with aromatic diamines and solution polymerization of I in amide solvents with aliphatic diamines does not give high-mol. weight polymers. The poly(acylthioureas) lose 5% weight in N or air at 210-20°.

IT 70113-14-3P 70113-15-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and properties of, solvent effect on)

RN 70113-14-3 CAPLUS

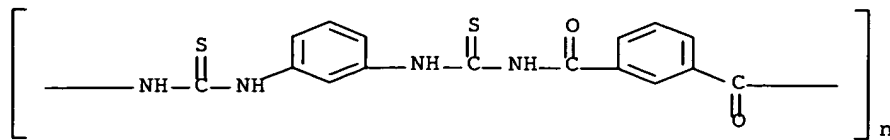
CN Poly(iminocarbonothioylimino-1,4-phenyleneiminocarbonothioyliminocarbonyl-1,3-phenylenecarbonyl) (9CI) (CA INDEX NAME)



RN 70113-15-4 CAPLUS

10/616,959

CN Poly(iminocarbonothioylimino-1,3-phenyleneiminocarbonothioyliminocarbonyl-1,3-phenylenecarbonyl) (9CI) (CA INDEX NAME)

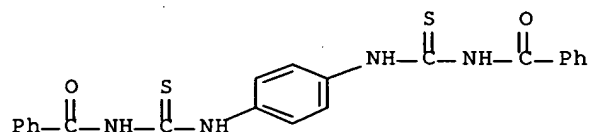


IT 70110-39-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 70110-39-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 21 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1978:508754 CAPLUS Full-text

DN 89:108754

TI Anthelmintic phosphorothioureidoarylenethioureas

IN Owen, Ronald P.; Miller, George A.; Schneider, Charles M.

PA Rohm and Haas Co., USA

SO U.S., 14 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4086336	A	19780425	US 1976-717411	19760824 <--
	ZA 7303432	A	19740626	ZA 1973-3432	19730522 <--
	BR 7303866	A0	19731220	BR 1973-3866	19730525 <--
	JP 49048640	A2	19740511	JP 1973-60195	19730529 <--
	AT 7409010	A	19770715	AT 1974-9010	19741111 <--
	AT 342362	B	19780328		
	US 4170648	A	19791009	US 1978-876779	19780210 <--
PRAI	US 1972-259423	A2	19720526		
	US 1973-354630	A2	19730425		
	US 1972-263378	A	19720605		
	AT 1973-4588	A	19730525		
	US 1976-717411	A3	19760824		

OS MARPAT 89:108754

AB The title compds., R3NHCSNHXNHCSNRP(O)R1R2 (I, X = arylene optionally substituted with halo, cyano, thiocyno, carboxy, nitro, amino, etc.; R = H, C1-10 alkyl, C1-10 haloalkyl, C3-6 cycloalkyl, C2-11 alkoxyalkyl, C1-10 cyanoalkyl, C3-6 alkenyl, C3-6 haloalkenyl, C3-6 alkynyl, C3-6 haloalkynyl,



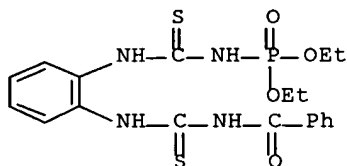
C7-11 aralkyl, C6-10 aryl; R1, R2 = R4, OR4, NR42, SR4, R4 = C1-18 alkyl; R3 = MeSO2, Ac, EtCO, ClCH2CO, Bz, P(O)R5R6, R5, R6 = OR4, NR42, SR4) were prepared by the reaction of o-(H2N)2X with R1R2P(O)NCS to give o-H2NXNHCSNHP(O)R1R2, which, with R3NCS, gave I. Thus, o-(H2N)2C6H4 and (EtO)2P(O)NCS gave o-H2NC6H4NHCSNHP(O)(OEt)2, which, with MeSO2NCS, gave o-MeSO2NHCSNHC6H4NHCSNHP(O)(OEt)2. Among the 20 I similarly prepared were o-(Me2N)2P(O)NHCSNHC6H4NHCSNHP(O)(OEt)(SMe), o-BzNHCSNHC6H4NHCSNHP(O)(OEt)2, and o-(Me2CHS)(EtO)P(O)NHCSNHC6H4NHCSNHP(O)(OEt)(SCHMe2). The preferred dose of I for roundworms in animals is 12-100 mg/kg.

IT 52406-18-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 52406-18-5 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(benzoylamino)thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1978:424007 CAPLUS Full-text

DN 89:24007

TI Phosphonothioureides

IN Weir, William David

PA Rohm and Haas Co., USA

SO Patentschrift (Switz.), 7 pp.

CODEN: SWXXAS

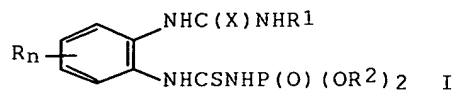
DT Patent

LA German

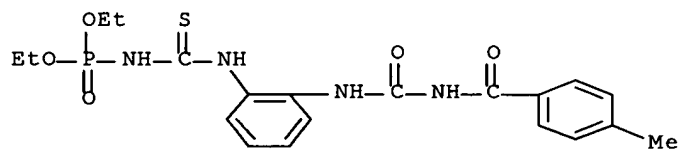
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CH 596228	A	19780315	CH 1973-14623	19731016 <--
	US 3845176	A	19741029	US 1972-298683	19721018 <--
	FR 2306700	A2	19761105	FR 1973-36312	19731011 <--
	FR 2306700	B2	19790126		
	BE 806083	A4	19740416	BE 1973-136693	19731015 <--
	ZA 7307995	A	19741127	ZA 1973-7995	19731015 <--
	DD 109223	W	19741020	DD 1973-174091	19731016 <--
	AU 7361459	A1	19750417	AU 1973-61459	19731016 <--
	JP 54007787	B4	19790410	JP 1973-116249	19731016 <--
	SE 415355	B	19800929	SE 1973-14069	19731016 <--
	SE 415355	C	19810122		
	GB 1444103	A	19760728	GB 1973-48353	19731017 <--
	HU 172069	P	19780528	HU 1973-RO754	19731017 <--
	NL 7314380	A	19740422	NL 1973-14380	19731018 <--
	AT 7308868	A	19760315	AT 1973-8868	19731018 <--
	AT 333305	B	19761110		
	ES 419749	A1	19760316	ES 1973-419749	19731018 <--
	PL 101308	P	19781230	PL 1973-165936	19731018 <--
	IL 43491	A1	19780310	IL 1973-43491	19731026 <--

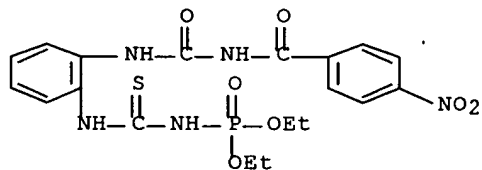
IN 139438 A 19760619 IN 1974-CA403 19740226 <--  
 PRAI US 1972-298683 A 19721018  
 BE 1973-800041 A 19730525  
 GI



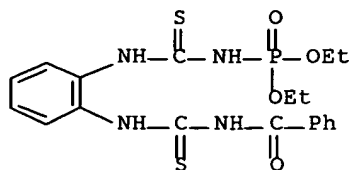
AB Twenty-two phosphonothioureides I (R = H or the same or different alkyl, alkoxy, halo; R1 = alkylsulfonyl, PhSO2, substituted phenylsulfonyl, alkanoyl, Bz, substituted benzoyl; R2 = alkyl, alkoxyalkyl, haloalkyl, Ph, substituted phenyl; X = O or S; n = 1-4) were prepared by treating RnC6H4-n(NH2)2 (NH2 groups ortho to one another) successively with SCN(P(O)(OR2)2 and XCNR1.  
 IT 52406-05-0P 52406-06-1P 52406-18-5P  
 52406-19-6P 52406-20-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 52406-05-0 CAPLUS  
 CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 52406-06-1 CAPLUS  
 CN Phosphoramidic acid, [[[2-[[[(4-nitrobenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)

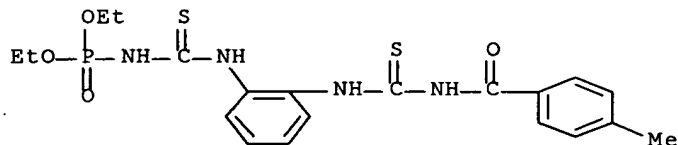


RN 52406-18-5 CAPLUS  
 CN Phosphoramidic acid, [[[2-[[[(benzoylamino)thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



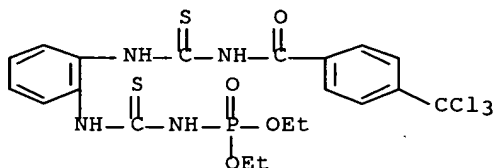
RN 52406-19-6 CAPLUS

CN Phosphoramidic acid, [[2-[[[(4-methylbenzoyl)amino]thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 52406-20-9 CAPLUS

CN Phosphoramidic acid, [thioxo[[2-[[thioxo[[4-(trichloromethyl)benzoyl]amino]methyl]amino]phenyl]amino]methyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1978:406131 CAPLUS Full-text

DN 89:6131

TI 1-(2-Ureidophenyl)-3-phosphonoureas

IN Weir, W. David; Kilbourn, Edward E.

PA Rohm and Haas Co., USA

SO U.S., 17 pp.

CODEN: USXXAM

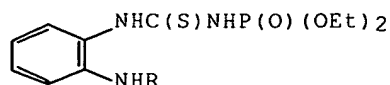
DT Patent

LA English

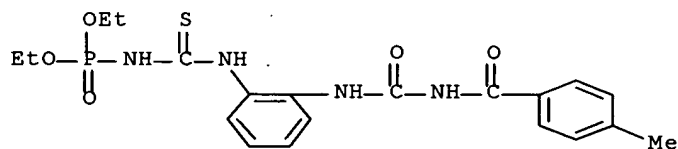
FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4076809	A	19780228	US 1975-625998	19751028 <--
	US 4183921	A	19800115	US 1977-842645	19771017 <--
	US 4234575	A	19801118	US 1979-7881	19790131 <--
	US 4276290	A	19810630	US 1979-73249	19790906 <--
PRAI	US 1972-263378	A2	19720605		
	US 1973-354629	A2	19730425		
	US 1975-625998	A3	19751028		
	US 1977-842645	A3	19771017		

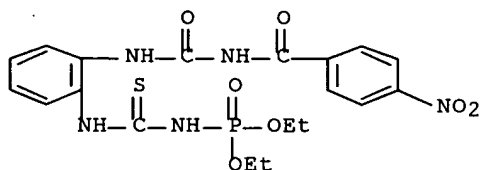
GI



- AB ZANHC(X)NRP(X1)YY1 (Z = NH<sub>2</sub>, acylamino, a ureido group, and thioureido group; A = substituted or unsubstituted divalent arylene; X = O, S; R = H, alkyl, haloalkyl, cycloalkyl, alkoxyalkyl, cyanoalkyl, alkenyl, haloalkenyl, alkynyl, haloalkynyl, aralkyl, substituted or unsubstituted aryl; X1 = O, S; Y = alkyl, alkenyl, aryl, alkoxy, alkenyloxy, aryloxy, alkylthio, alkenylthio, arylthio, disubstituted amino; Y1 = alkoxy, alkenyloxy, aryloxy, alkylthio, alkenylthio, arylthio, disubstituted amino), which are useful as anthelmintics (no data), were prepared. Thus, o-phenylenediamines was acylated by (EtO)<sub>2</sub>P(O)NCS to give I (R = H) which with PhSO<sub>2</sub>NCO yielded I (R = CONHSO<sub>2</sub>Ph).
- IT 52406-05-0P 52406-06-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)
- RN 52406-05-0 CAPLUS
- CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)

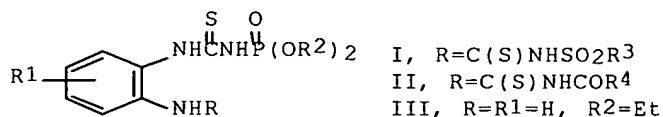


- RN 52406-06-1 CAPLUS
- CN Phosphoramidic acid, [[[2-[[[(4-nitrobenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



- L5 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1976:483225 CAPLUS Full-text
- DN 85:83225
- TI Anthelmintics containing phosphonothioureides
- PA Rohm and Haas Co., USA
- SO Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 50050341	A2	19750506	JP 1973-98162	19730831 <--
PRAI	JP 1973-98162	A	19730831		
GI					



AB Anthelmintics for domestic animals and humans contain phosphonothioureides I and II (R<sup>2</sup> = lower alkyl, substituted or unsubstituted aryl; R<sup>1</sup> = H, lower alkyl, lower alkoxy, or halogen; R<sup>3</sup>, R<sup>4</sup> = alkyl or substituted or unsubstituted aryl). For example, I (R<sup>1</sup> = H, R<sup>2</sup> = R<sup>3</sup> = Et) (IV) [52406-12-9] was prepared from III [52405-98-8] and EtSO<sub>2</sub>NCS [52405-94-4]. A tasty tablet preparation contained active ingredient (such as IV) 110, fish powder 1027, bovine liver powder 1027, soybean powder 97 and sucrose 239 mg.

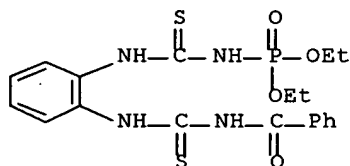
IT 52406-18-5P 52406-19-6P 52406-20-9P

RL: PREP (Preparation)

(preparation of, for anthelmintic pharmaceuticals)

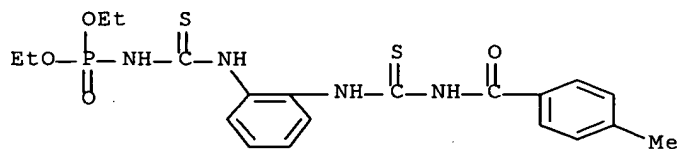
RN 52406-18-5 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(benzoylamino)thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



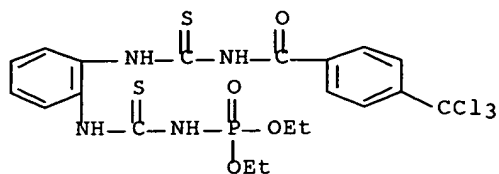
RN 52406-19-6 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



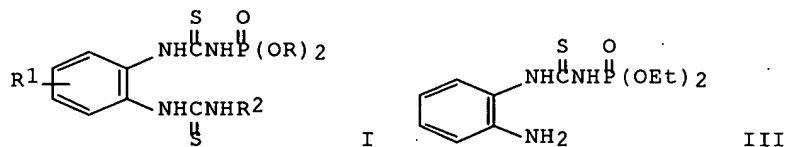
RN 52406-20-9 CAPLUS

CN Phosphoramidic acid, [thioxo[[2-[[thioxo[[4-(trichloromethyl)benzoyl]amino]methyl]amino]phenyl]amino]methyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1976:468293 CAPLUS Full-text  
 DN 85:68293  
 TI Phosphonothioureide anthelmintics  
 PA Rohm and Haas Co., USA  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 50035134	A2	19750403	JP 1974-45884	19740423 <--
PRAI	US 1973-354630	A	19730425		
GI					

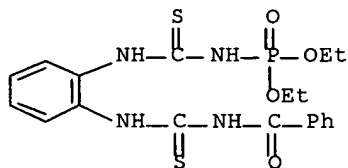


AB Anthelmintics for human and domestic animals contain phosphonothioureids(I) (R = lower alkyl, substituted or unsubstituted aryl; R1 = H, lower alkyl, lower alkoxy or halogen; R2 = SO2R3 or COR4 with R3 and R4 = alkyl or substituted or unsubstituted aryl). E.g., I(R = Et, R1 = H, R2 = SO2Et) (II) [52406-12-9] was prepared from III [52405-98-8] and EtSO2NCS [52405-94-4]. A tablet preparation contained active ingredient (such as II) 220, lactose 53.23, MgAl silicate 2.24, starch 3.13 Ca stearate 0.65 and microcryst. cellulose 35.75.

IT 52406-18-5P 52406-19-6P 52406-20-9P  
 RL: PREP (Preparation)  
 (preparation of, for anthelmintic pharmaceuticals)

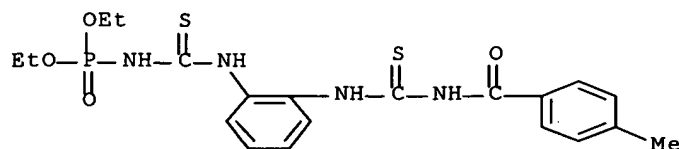
RN 52406-18-5 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(benzoylamino)thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



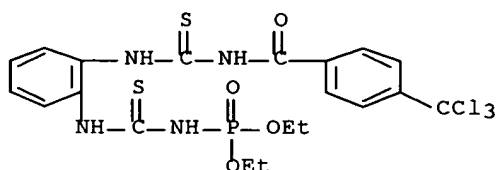
RN 52406-19-6 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 52406-20-9 CAPLUS

CN Phosphoramidic acid, [thioxo[[2-[[thioxo[[4-(trichloromethyl)benzoyl]amino]methyl]amino]phenyl]amino]methyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1976:437249 CAPLUS Full-text

DN 85:37249

TI Phosphonoureide and phosphonothioureide anthelmintics for domestic animals

PA Rohm and Haas Co., USA

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

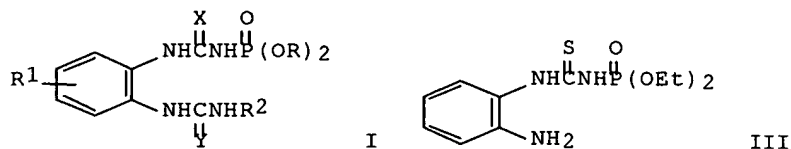
DT Patent

LA Japanese

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 49135952	A2	19741227	JP 1973-98163	19730831 <--
PRAI	US 1973-354629	A	19730425		

GI



AB Anthelmintics for dosmetic animals contain phosphonoureides or phosphonothioureides (I) (X and Y = O or S; R = lower alkyl, lower alkoxyalkyl, aryl, halogenated lower alkyl, substituted or unsubstituted phenyl; R1 = H, lower alkyl, lower alkoxy or halogen; R3 = SO2R3 or COR4 with

R3 and R4 = alkyl or substituted or unsubstituted aryl). E.g. I(R = Et, R1 = H, R2 = SO<sub>2</sub>PH, X = S, Y = O) (II) [52406-00-5] was prepared from III [52405-98-8] and PhSO<sub>2</sub>NCO [2845-62-7]. A tablet preparation contained active ingredient (such as II) 220, lactose 53.23, MgAl silicate 2.24, starch 13.13, Ca stearate 0.65 and microcryst. cellulose 35.75 mg.

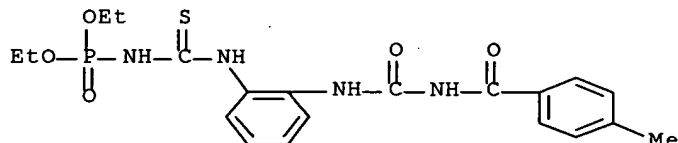
IT 52406-05-0P 52406-06-1P

RL: THU (Therapeutic use); BIOL (Biological study); PREP (Preparation);  
USES (Uses)

(preparation of, as anthelmintic)

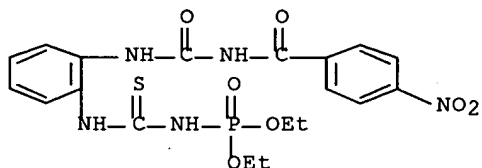
RN 52406-05-0 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 52406-06-1 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-nitrobenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1974:437407 CAPLUS Full-text

DN 81:37407

TI 1-(3-Disubstituted phosphonothioureido)-2-(3-substituted ureido- or thioureido)-benzene compounds

IN Weir, William D.

PA Rohm and Haas Co.

SO Ger. Offen., 24 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 2346241	A1	19740502	DE 1973-2346241	19730913 <--
	US 3845176	A	19741029	US 1972-298683	19721018 <--
	FR 2306700	A2	19761105	FR 1973-36312	19731011 <--
	FR 2306700	B2	19790126		
	BE 806083	A4	19740416	BE 1973-136693	19731015 <--
	ZA 7307995	A	19741127	ZA 1973-7995	19731015 <--
	DD 109223	W	19741020	DD 1973-174091	19731016 <--
	AU 7361459	A1	19750417	AU 1973-61459	19731016 <--



JP 54007787	B4	19790410	JP 1973-116249	19731016 <--
SE 415355	B	19800929	SE 1973-14069	19731016 <--
SE 415355	C	19810122		
GB 1444103	A	19760728	GB 1973-48353	19731017 <--
HU 172069	P	19780528	HU 1973-RO754	19731017 <--
NL 7314380	A	19740422	NL 1973-14380	19731018 <--
AT 7308868	A	19760315	AT 1973-8868	19731018 <--
AT 333305	B	19761110		
ES 419749	A1	19760316	ES 1973-419749	19731018 <--
PL 101308	P	19781230	PL 1973-165936	19731018 <--
IL 43491	A1	19780310	IL 1973-43491	19731026 <--
IN 139438	A	19760619	IN 1974-CA403	19740226 <--
PRAI US 1972-298683	A	19721018		
BE 1973-800041	A	19730525		

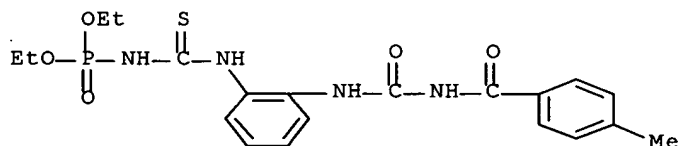
GI For diagram(s), see printed CA Issue.

AB The urea derivs. I (R = Et, Me<sub>2</sub>CH, ClCH<sub>2</sub>CH<sub>2</sub>; R<sub>1</sub> = H, Cl; R<sub>2</sub> = e.g., 4-MeC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>, BuSO<sub>2</sub>, Ac, Bz; Z = O, S) were prepared in one reaction vessel by the reaction of ClP(O)(OR)<sub>2</sub> with a thiocyanate to give SCNP(O)(OR)<sub>2</sub>, which reacted with 3,4-(H<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>R, then with R<sub>2</sub>NCS or R<sub>2</sub>NCO to give I. Thus, ClP(O)(OEt)<sub>2</sub> reacted with KSCN in MeOCH<sub>2</sub>CH<sub>2</sub>OMe, followed by addition of o-C<sub>6</sub>H<sub>4</sub>(NH<sub>2</sub>)<sub>2</sub>, then 4-MeC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NCS to give I (R = Et, R<sub>1</sub> = H, R<sub>2</sub> = 4-MeC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>, Z = S). Twenty-two I were prepared

IT 52406-05-0P 52406-06-1P 52406-18-5P  
52406-19-6P 52867-32-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

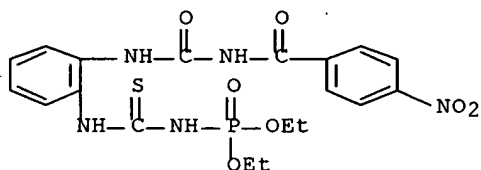
RN 52406-05-0 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



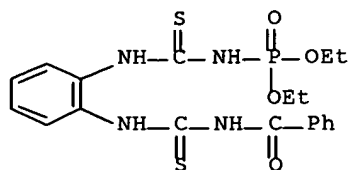
RN 52406-06-1 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-nitrobenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



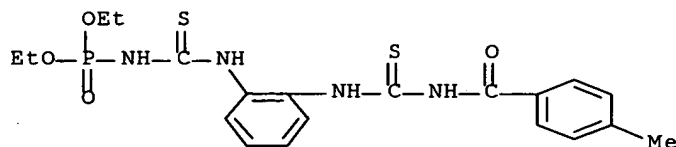
RN 52406-18-5 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(benzoylamino)thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



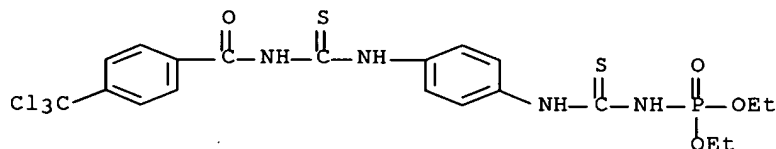
RN 52406-19-6 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 52867-32-0 CAPLUS

CN Phosphoramidic acid, [thioxo[[4-[[thioxo[[4-(trichloromethyl)benzoyl]amino]methyl]amino]phenyl]amino]methyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1974:95531 CAPLUS Full-text

DN 80:95531

TI Anti-worm arylene compounds

IN Schneider, Charles M.; Owne, Ronald Parris; Miller, George Allen; Wier, William D.; Kilbourn, Edward E.

PA Rohm and Haas Co.

SO Ger. Offen., 32 pp.

CODEN: GWXXBX

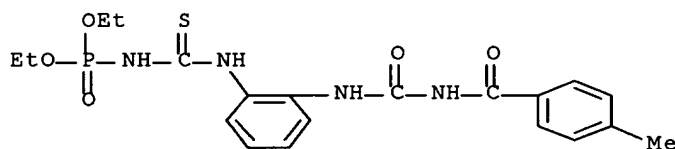
DT Patent

LA German

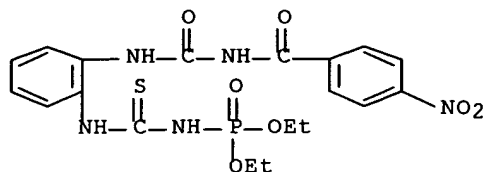
FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2325036	A1	19740103	DE 1973-2325036	19730517 <--
	DE 2325036	B2	19800313		
	DE 2325036	C3	19801106		
	ZA 7303432	A	19740626	ZA 1973-3432	19730522 <--
	NL 7307291	A	19731207	NL 1973-7291	19730524 <--
	SE 411758	B	19800204	SE 1973-7360	19730524 <--
	SE 411758	C	19800522		
	BE 800041	A1	19731126	BE 1973-131524	19730525 <--
	BR 7303866	A0	19731220	BR 1973-3866	19730525 <--

FR 2187336	A1	19740118	FR 1973-19183	19730525 <--
FR 2187336	B1	19770128		
DD 105441	C	19740420	DD 1973-171078	19730525 <--
AU 7356165	A1	19741128	AU 1973-56165	19730525 <--
AT 7304588	A	19750215	AT 1973-4588	19730525 <--
AT 326145	B	19751125		
CH 574451	A	19760415	CH 1973-7569	19730525 <--
IN 139086	A	19760508	IN 1973-CA1229	19730525 <--
ES 415199	A1	19760601	ES 1973-415199	19730525 <--
HU 169608	P	19761228	HU 1973-RO733	19730525 <--
IL 42355	A1	19771230	IL 1973-42355	19730525 <--
CS 193022	P	19790917	CS 1973-3805	19730525 <--
DK 142752	B	19810112	DK 1973-2903	19730525 <--
JP 49048640	A2	19740511	JP 1973-60195	19730529 <--
JP 49048641	A2	19740511	JP 1973-60196	19730529 <--
GB 1389525	A	19750403	GB 1973-26150	19730601 <--
SU 536755	D	19761125	SU 1973-1926076	19730604 <--
AT 7409010	A	19770715	AT 1974-9010	19741111 <--
AT 342362	B	19780328		
ES 441218	A1	19770701	ES 1975-441218	19750916 <--
ES 441218	A5	19770708		
PRAI US 1972-259423	A	19720526		
US 1972-263378	A	19720605		
AT 1973-4588	A	19730525		
ES 1973-415199	A3	19730525		
GI	For diagram(s), see printed CA Issue.			
AB	Urea derivs. (I; R = Et, ClCH <sub>2</sub> CH <sub>2</sub> , Me <sub>2</sub> CH; R <sub>1</sub> = e.g., Ac, EtCO, 4-O <sub>2</sub> NC <sub>6</sub> H <sub>4</sub> CO, MeSO <sub>2</sub> , PhSO <sub>2</sub> , 4-MeC <sub>6</sub> H <sub>4</sub> SO <sub>2</sub> ; Z = O, S) were prepared by the reaction of o-C <sub>6</sub> H <sub>4</sub> (NH <sub>2</sub> ) <sub>2</sub> with (RO) <sub>2</sub> P(:Z)NCS or (RO) <sub>2</sub> P(:Z)NCO followed by reaction with R <sub>1</sub> NCS or R <sub>1</sub> NCO. About 20 compds. were prepared, useful as nematocides in e.g., sheep and cattle.			
IT	52406-05-0P 52406-06-1P 52406-18-5P 52406-19-6P 52406-20-9P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)			
RN	52406-05-0 CAPLUS			
CN	Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)			

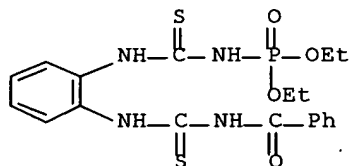


RN	52406-06-1	CAPLUS
CN	Phosphoramidic acid, [[[2-[[[(4-nitrobenzoyl)amino]carbonyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)	



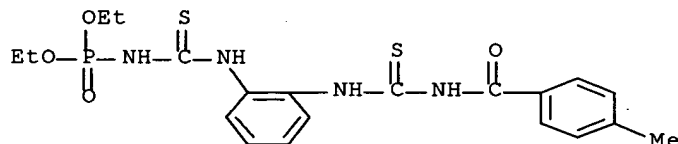
RN 52406-18-5 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(benzoylamino)thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



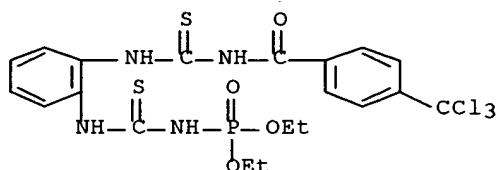
RN 52406-19-6 CAPLUS

CN Phosphoramidic acid, [[[2-[[[(4-methylbenzoyl)amino]thioxomethyl]amino]phenyl]amino]thioxomethyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 52406-20-9 CAPLUS

CN Phosphoramidic acid, [thioxo[[2-[[[thioxo[[4-(trichloromethyl)benzoyl]amino]methyl]amino]phenyl]amino]methyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1972:564599 CAPLUS Full-text

DN 77:164599

TI Formation of 2-benzamidobenzimidazole. Its thermal stability

AU Depost, Gerard; Salle, Robert; Sillion, Bernard

CS Dep. Rech., Inst. Fr. Pet., Grenoble, Fr.

SO Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences

Chimiques (1972), 275(13), 697-700

CODEN: CHDCAQ; ISSN: 0567-6541

DT Journal

LA French

GI For diagram(s), see printed CA Issue.

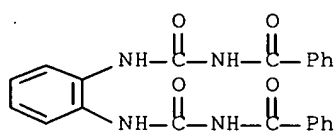
AB 2-Benzamidobenzimidazole (I) was obtained in 17 yield by cyclizing o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NHCONH-Bz with p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H in boiling PhMe. In the absence of p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H, o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NHCONHBz decomposed to (H<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>, o-(BzNHCONH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>, BzNH<sub>2</sub>, and 2-phenyl-benzimidazole. O-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NHCONHBz was prepared in 36 yield by treating BzNCO with o-(H<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>4</sub> at room temperature. Pyrolysis of I at 320° gave H<sub>2</sub>O, C<sub>6</sub>H<sub>6</sub>, PhCN, BzNH<sub>2</sub>, 2-phenylbenzimidazole, and the trimer II.

IT 38870-79-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 38870-79-0 CAPLUS

CN Benzamide, N,N'-[1,2-phenylenebis(iminocarbonyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1971:449011 CAPLUS Full-text

DN 75:49011

TI New iodinated organic compounds. Iodinated derivatives of  
1,2-dihydro-4H-3,1-benzoxazine-2,4-dione and 2,4(1H, 3H)-quinazolinedione

AU Covello, Mario; Dini, Antonio; De Simone, Francesco

CS Ist. Chim. Farm. Tossicol., Univ. Napoli, Naples, Italy

SO Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche, Naples (1969), 36, 61-6

CODEN: RASFAM; ISSN: 0370-3568

DT Journal

LA Italian

GI For diagram(s), see printed CA Issue.

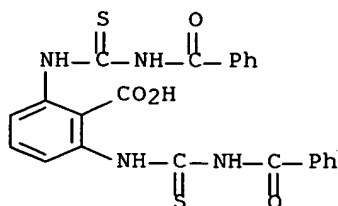
AB The known 6,2-I(H<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>CO<sub>2</sub>H (I) refluxed 20 hr in ClCO<sub>2</sub>Et yielded 63% 5-iodo-2H-3,1-benzoxazine-2,4-(1H)-dione (II) (R = H, R<sub>1</sub> = 5-I), m. 173.5° (MeOH-C<sub>6</sub>H<sub>6</sub>), converted by refluxing 2 hr in concentrated NH<sub>4</sub>OH to 39% 5-iodo-2,4-(1H,3H)-quinazolinedione (III) (R = H, R<sub>1</sub> = 5-I), m. 340°, also produced by heating I 30 min at 170-80° with urea. NH<sub>4</sub>SCN refluxed in Me<sub>2</sub>CO with addition of BzCl and the mixture treated with I in Me<sub>2</sub>CO, refluxed and the cooled solution poured into cold H<sub>2</sub>O gave 6,2-I(BzNHCSNH)C<sub>6</sub>H<sub>3</sub>CO<sub>2</sub>H (IV), m. 171-3°, converted by refluxing in N NaOH and acidification to 5-iodo-2-thio-2,4(1H,3H)-quinazolinedione (V) (R = H, R<sub>1</sub> = 5-I), m. 324-6° (decomposition). The known 3,5,2-ICl(NH<sub>2</sub>)C<sub>6</sub>H<sub>2</sub>CO<sub>2</sub>H was similarly transformed to give 46% II (R = 6-Cl, R<sub>1</sub> = 8-I), m. 176-8°; 62% III (R = 6-Cl, R<sub>1</sub> = 8-I), m. 310° (decomposition), 47% 3,5,2-ICl(BzNHCSNH)C<sub>6</sub>H<sub>2</sub>CO<sub>2</sub>H, m. 181-3°, and 80% V (R = 6-Cl, R<sub>1</sub> = 8-I), m. 320-2° (decomposition). Analogous procedures converted 3,5,2-IBr(H<sub>2</sub>N)C<sub>6</sub>H<sub>2</sub>CO<sub>2</sub>H into 88% II (R = 6-Br, R<sub>1</sub> = 8-I), m. 155-7°; 43% III (R = 6-Br, R<sub>1</sub> = 8-I), m. 314-16°; 71% acid 3,5,2-IBr(BzNHCSNH)C<sub>6</sub>H<sub>2</sub>CO<sub>2</sub>H, m. 172-4°; and 84% V (R = 6-Br, R<sub>1</sub> = 8-I), m. 303-5° (decomposition).

IT 33115-22-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 33115-22-9 CAPLUS

CN Benzoic acid, 2,6-bis(3-benzoyl-2-thioureido)- (8CI) (CA INDEX NAME)



L5 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1966:84555 CAPLUS Full-text

DN 64:84555

OREF 64:15870g-h,15871a-h,15872a-b

TI Thioacyl isocyanates. III. Synthesis and properties of N-thiobenzoylureas

AU Goerdeler, Joachim; Schenk, Hainfried

CS Univ. Bonn, Germany

SO Chemische Berichte (1966), 99(3), 782-92

CODEN: CHBEAM; ISSN: 0009-2940

DT Journal

LA German

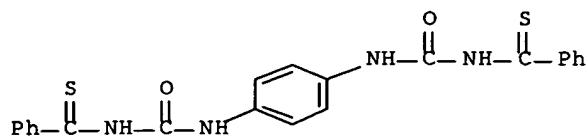
OS CASREACT 64:84555

GI For diagram(s), see printed CA Issue.

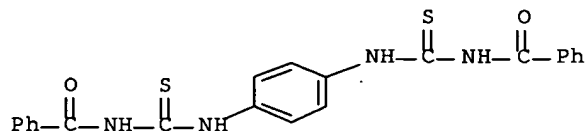
AB cf. CA 64, 5083d. Primary and secondary amines were added to PhCSNCO (I) to yield the corresponding PhCSNHCONRR' (II). PhCSNHCONH2 (III) was obtained by the selective saponification of II (R = Bz, R' = H) (IV). The adducts from hydrazines and amidines to I showed a strong tendency for cyclization. 2-Phenylthiazolidine-4,5-dione (V) (5 g.) in 30 cc. dry methylcyclohexane decomposed thermally by the method described previously gave a solution of I; except where noted otherwise, this solution from 5 g. V was used in all runs with I as the starting material. I treated dropwise with 1.2 g. absolute EtOH yielded 3 g. deep yellow PhCSNHCO2Et, 63° (decomposition) (AcOEt-ligroine). I with 1.92 g. BuNH2 in 5 cc. dry Et2O gave after chromatography on silica gel 0.7 g. PhCN, 1.5 g. PhCSNH2, 0.28 g. II (R = Bu, R' = H), m. 92° (1:15 CH2Cl2-methylcyclohexane), and 2 g. brown, odoriferous oil. I with 2.23 g. piperidine in 25 cc. dry methylcyclohexane stirred 15 min. gave 4.5 g. yellow-orange II [(RR' = (CH2)5] (VI), m. 130° (decomposition) (aqueous EtOH). VI (0.248 g.) in 30 cc. MeOH treated at room temperature with 20 cc. 0.1N AgNO3 gave 0.165 g. N,N-pentamethylene-N'-benzoylurea, m. 172° (decomposition) (dioxane-ligroine). I and 10 cc. Et2O treated with 2.6 g. cyclohexylamine in 20 cc. Et2O gave 2.9 g. II (R = cyclohexyl, R' = H) (VII), m. 150° (1:2 C6H6-petroleum ether). I with 2.45 g. PhNH2 in 10 cc. dry Et2O stirred 10 min. at room temperature gave 3.0 g. sulfur yellow II (R = Ph, R' = H) (VIII), m. 214° (decomposition) (EtOH). VIII refluxed 0.5 hr. with 0.1N AgNO3-MeOH yielded 88% PhNHCONHBz. 2,3,6-Triphenyl-2H-1,3,5-thiadiazin-4-one (3.44 g.) in 50 cc. dioxane and 1 cc. H2O refluxed 5 min. gave 2.42 g. yellow VIII, m. 216° (decomposition). I (from 3.82 g. V) treated at 0° with 10 cc. dry AcOEt and then slowly with 3.38 g. Ph2NH in 10 cc. dry Me2CO and stirred 0.5 hr. at 0° yielded 30% PhCSNHCONPh2 (IX), m. 137° (decomposition) (petroleum ether). IX (0.332 g.) and 0.138 g. o-O2NC6H4NH2 in 7 cc. dry C6H6 heated 5 min. at 40° and kept at room temperature overnight yielded 0.19 g. II (R = o-O2NC6H4, R' = H) (X). I with 3.23 g. p-MeOC6H4NH2 in 30 cc. dry Me2CO yielded 4.84 g. bright yellow II (R = p-MeOC6H4, R' = H) (XI), m. 179° (decomposition). XI decomposed at about 200° with gas evolution and formation of a colorless solid, m. 230°. XI (1 g.), 0.007 mole Et3N, and 25 cc. dry AcOEt treated with

stirring at about 10° with 0.56 g. Br in 25 cc. dry AcOEt gave 0.5 g. light yellow XII (R = p-MeOC<sub>6</sub>H<sub>4</sub>), m. 155° (AcOEt). I with 3.62 g. o-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub> in 15 cc. dry Me<sub>2</sub>CO yielded 3.15 g. light brown-yellow X, m. 215° (decomposition) (C<sub>6</sub>H<sub>6</sub>). I and 4.6 g. 2,4-(O<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NH<sub>2</sub> refluxed 1 hr. in 30 cc. dry Me<sub>2</sub>CO and stirred 20 min. yielded 0.9 g. II [R = 2,4-(O<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, R' = H], m. 225° (decomposition) (200:25 dioxane-H<sub>2</sub>O). I from 0.95 g. V treated dropwise with 0.59 g. p-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CN in 10 cc. absolute Me<sub>2</sub>CO and stirred 10 min. yielded 0.68 g. deep yellow II (R = p-NCC<sub>6</sub>H<sub>4</sub>, R' = H), m. 252° (decomposition) (PhCl). I from 1.91 g. V with 1.52 g. o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CSNH<sub>2</sub> in 10 cc. dry Me<sub>2</sub>CO gave 2.25 g. II (R = o-H<sub>2</sub>NCSC<sub>6</sub>H<sub>4</sub>, R' = H) (XIII), m. 198° (decomposition with formation of light yellow and red crystals). I from 1.9 g. V stirred 15 min. with 0.54 g. p-C<sub>6</sub>H<sub>4</sub>(NH<sub>2</sub>)<sub>2</sub> in 10 cc. dry tetrahydrofuran yielded 1.05 g. yellow p-PhCSNHCONHC<sub>6</sub>H<sub>4</sub>NHCONHCSPH, decompose above 223° with the evolution of gas but without melting. I and 2.47 g. 2-aminopyridine in 15 cc. dry Me<sub>2</sub>CO stirred 15 min. gave 3.1 g. yellow II (R = 2-pridyl, R' = H), m. 199° (decomposition) (AcOEt), which refluxed 4 hrs. with aqueous dioxane. gave a S-free solid, m. 211° (decomposition). I with 2.5 g. 2-aminopyrimidine in 30 cc. dry Me<sub>2</sub>CO gave similarly 4.5 g. pink II (R = 2-pyrimidinyl, R' = H), m. 238° (decomposition) (HCONMe<sub>2</sub>). I with 4.65 g. 5-amino-3-phenyl-1,2,4-thiadiazole in 30 cc. dry Me<sub>2</sub>CO stirred 15 min. gave 5.2 g. yellow II (R = 3-phenyl-1,2,4-thiadiazol-5-yl, R' = H), m. 252° (decomposition) (HCONMe<sub>2</sub>-tetrahydrofuran), which repptd. from AcNMe<sub>2</sub> with petroleum ether gave orange prisms which change above 80° to the yellow form. I with 3.2 g. BzNH<sub>2</sub> and 20 cc. dry Me<sub>2</sub>CO gave 1.3 g. IV, pink needles from C<sub>6</sub>H<sub>6</sub>, violet needles from Me<sub>2</sub>CO, m. 220° (decomposition). PhCSNH<sub>2</sub> (46 g.) in 400 cc. dry C<sub>6</sub>H<sub>6</sub> refluxed 3 hrs. with 49 g. BzNCO yielded 80 g. IV. 2,6-Diphenyl-1,3,5-thiadiazin-4-one (0.266 g.) in 5 cc. Me<sub>2</sub>CO heated briefly to 40° with a few drops H<sub>2</sub>O and 1 drop 2N HCl and kept 0.5 hr. at room temperature gave 0.27 g. IV. I and 3.6 g. BzNHNH<sub>2</sub> in 25 cc. Me<sub>2</sub>CO yielded 2.6 g. yellow II (R = BzNH, R' = H) (XIV), m. 226° (decomposition) (C<sub>6</sub>H<sub>6</sub>). I from 2.5 g. V stirred 0.5 hr. with 1.57 g. PhCH:NNH<sub>2</sub> in 10 cc. dry Me<sub>2</sub>CO yielded 0.82 g. light yellow II (R = PhCH:N, R' = H), m. 175° (decomposition). V (5 g.) and 4.0 g. H<sub>2</sub>NCH<sub>2</sub>CO<sub>2</sub>Et.HCl refluxed in methylcyclohexane gave 2.5 g. yellow PhCSNHCONHCH<sub>2</sub>CO<sub>2</sub>Et (XV), m. 138° (decomposition) (MeOH). XV (1 g.) and 10 cc. 4N NaOH heated about 10 min. at 40° and neutralized gave 0.85 g. light yellow PhCSNHCONHCH<sub>2</sub>CO<sub>2</sub>H, m. 258° with foaming (aqueous MeOH); it crystallized from aqueous MeOH with 0.5 mole H<sub>2</sub>O. I from 2.5 g. V with 0.66 g. N<sub>2</sub>H<sub>4</sub>.H<sub>2</sub>O in 15 cc. dry tetrahydrofuran yielded 1.2 g. yellowish XVI (R = R' = H) (XVII), m. 321° (aqueous EtOH). XIV (0.3 g.) and 1 drop Me<sub>2</sub>CO in 5 cc. 4N NaOH refluxed 10 min. and neutralized gave 0.15 g. XVII, m. 320-4°. I with 2.9 g. PhNHNH<sub>2</sub> in 5 cc. dry Et<sub>2</sub>O at -20° gave 2.23 g. yellow precipitate which heated in AcOH gave with the elimination of H<sub>2</sub>S a mixture of XVI (R = Ph, R' = H) (XVIII) and XVI (R = H, R' = Ph) (XXIX) which fractionally recrystd. from aqueous AcOH gave 1.66 g. XIX, m. 235°, and 0.1-0.2 g. XVIII, m. 278° (partial decomposition). I from 1.91 g. V in 20 cc. methylcyclohexane refluxed 15 min. with 1.84 g. (PhNH)<sub>2</sub> in 10 cc. absolute tetrahydrofuran gave 0.86 g. XVI (R = R' = Ph), m. 242° (decomposition) (EtOH). I with 3.2 g. PhC(:NH)NH<sub>2</sub> in 20 cc. dry Me<sub>2</sub>CO refluxed 5 min. yielded 2.1 g. PhC(:NH)N:CPhNHCONHC(:NH)Ph (XX), m. 240-4° (decomposition) (AcNMe<sub>2</sub>-AcOEt). XX (about 0.5 g.) fused gave with the evolution of PhCN and NH<sub>3</sub> 2,6-diphenyl-3,4-dihydro-1,3,5-triazin-4-one, m. 289° (C<sub>6</sub>H<sub>6</sub>N). I in 25 cc. methylcyclohexane with 5 g. PhC(:NH).NHPh in 20 cc. dry dioxane gave 2.4 g. 1,2,6-triphenyl-1,4-dihydro-1,3,5-triazin-4-one, m. 284° (decomposition) (tetrahydrofuran) with the formation of a solid, m. 232° with sublimation. XIII (0.78 g.) in 4 cc. dry Me<sub>2</sub>CO and 0.32 g. (COCl)<sub>2</sub> in 10 cc. dry Me<sub>2</sub>CO gave at about 70° 0.63 g. red XXI, m. 163° (decomposition). IV (56.8 g.) in 100 cc. Me<sub>2</sub>CO and 2 l. 2N NaOH shaken 14 hrs. at room temperature and neutralized with AcOH yielded 30-1 g. lemon yellow III, m. 190° (decomposition) (AcOEt-ligroine). III (1.8 g.) in 10 cc. 2N NaOH treated gradually with 1.3 cc. 30% H<sub>2</sub>O<sub>2</sub> gave XII (R = H), m. 204° (MeOH); it gives a blood red color with FeCl<sub>3</sub>-MeOH).

IT 5378-02-9, Urea, 1,1'-p-phenylenebis[3-(thiobenzoyl)-  
(preparation of)  
RN 5378-02-9 CAPLUS  
CN Urea, 1,1'-p-phenylenebis[3-(thiobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



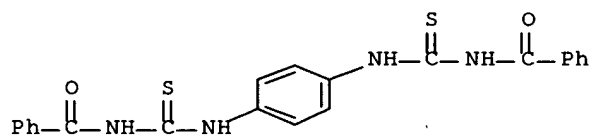
L5 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1966:36325 CAPLUS Full-text  
DN 64:36325  
OREF 64:6778b-d  
TI Acylisothiocyanates. VI. Reactions of bis(acyl isothiocyanates) with diamines  
AU Li, Yung-Hsien; Chen, Yao-Tsu  
CS Ind. Coll., Kansu, Peop. Rep. China  
SO Gaofenzi Tongxun (1964), 6(3), 206-12  
CODEN: KFTTAR; ISSN: 0453-2880  
DT Journal  
LA Chinese  
AB cf. Sci. Sinica (Peking) 12, 143(1963); CA 52, 19993b. Bis(acyl isothiocyanates) reacted readily with diamines to form linear polymers of acylthioureas with the structure  $[R'NHCSNHCORCONHCSNH]_n$ . Ten such poly(acylthioureas) were synthesized by the reactions of adipic, azelaic, and terephthalic diisothiocyanates with hydrazine, ethylenediamine,  $H_2N(CH_2)_6NH_2$ , p-phenylenediamine, and benzidine. The structure of the polymers obtained was confirmed by elementary analysis, degradation examination, and uv and ir spectroscopy. These polymers were colored (yellow to orange) powders, sparingly soluble in common organic solvents, but readily soluble in  $HCONMe_2$  and cold concentrated  $H_2SO_4$ . The x-ray diffraction patterns showed that these polymers possessed fair crystallinity. The softening points of the polymers decreased with increasing length of the aliphatic C chain and increased when benzene nuclei were introduced into the chain. Four of these polymers had softening points  $>300^\circ$ .  
IT 70110-39-3, Urea, 1,1'-p-phenylenebis[3-benzoyl-2-thio-  
(preparation of)  
RN 70110-39-3 CAPLUS  
CN Benzamide, N,N'-[1,4-phenylenebis(imino-carbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 33 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1964:68587 CAPLUS Full-text

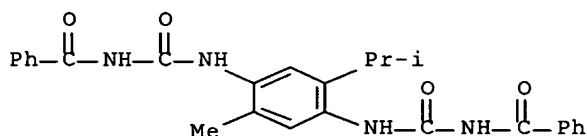


DN 60:68587  
 OREF 60:12118e-g  
 TI Poly(acylthioureas)  
 AU Chen, Yao-Tsu; Li, Yung-Hsien  
 CS Univ. Lanchow, Peop. Rep. China  
 SO Kexue Tongbao (Chinese Edition) (1963), (10), 50-2  
 CODEN: KHTPAT; ISSN: 0023-074X  
 DT Journal  
 LA Unavailable  
 AB Diisothiocyanates of formula  $R(\text{CONCS})_2$  (from diacyl chlorides and 2 moles  $\text{NH}_4\text{CNS}$ ) can add 2 moles of a primary amine,  $\text{R}'\text{NH}_2$ , to form bis(acylthioureas),  $(\text{R}'\text{NHCSNHCO})_2\text{R}$ . For  $\text{R}' = \text{Ph}$  and  $\text{R}$  given, the m.p.s. are:  $(\text{CH}_2)_4$ , 192-3°; p-C<sub>6</sub>H<sub>4</sub> (I), 290°. If  $\text{RCONCS}$  (from  $\text{RCOCl}$  and 1 mole  $\text{NH}_4\text{CNS}$ ) was treated with diamines,  $\text{R}'(\text{NH}_2)_2$ , bis(acylthio-ureas) of type  $(\text{RCONHCSNH})_2\text{R}'$  were formed; e.g. for  $\text{R} = \text{Ph}$  and  $\text{R}'$  given, the m.p.s. are:  $(\text{CH}_2)_6$ , 177-8°; p-C<sub>6</sub>H<sub>4</sub>, 237-8°. By hydrolysis with 10% NaOH, 80-90% of the original carboxylic acid and thiourea were recovered and identified by mixed-m.p. determination. By keeping bis(acyl isothiocyanates) (3 kinds) and diamines (5 kinds) for 12 hrs. in anhydrous  $\text{Me}_2\text{CO}$ , 10 poly(acyl-thioureas) were obtained containing the fundamental unit  $\text{R}'\text{NH-CSNHCORCONHCSNH}$  ( $\text{R}$ ,  $\text{R}'$ , m.p., and reduced viscosity at  $30 \pm 1^\circ$  in 0.5 g./ml. concentrated  $\text{H}_2\text{SO}_4$  given):  $(\text{CH}_2)_4$ ,  $(\text{CH}_2)_2$ , 185° (decompose), 0.10;  $(\text{CH}_2)_4$ ,  $(\text{CH}_2)_6$ , 180° (decompose), 0.18 (infrared absorption bands at 5.58-6.1, 6.3-6.65, 7.8-8.0, 8.6, and 13.58  $\mu$ );  $(\text{CH}_2)_7$ ,  $(\text{CH}_2)_2$ , 125-9°, 0.10;  $(\text{CH}_2)_4$ , p-C<sub>6</sub>H<sub>4</sub>, m. >300°, 0, 20 (infrared absorption bands at 2-15  $\mu$ ; ultra-violet absorption similar to that of I);  $(\text{CH}_2)_7$ , p-C<sub>6</sub>H<sub>4</sub>, 150-3°, 0.16; p-C<sub>6</sub>H<sub>4</sub>, -, m. >300°, 0.069; p-C<sub>6</sub>H<sub>4</sub>,  $(\text{CH}_2)_2$ , 210° (decompose), 0.12; p-C<sub>6</sub>H<sub>4</sub>,  $(\text{CH}_2)_6$ , 120-5°, 0.12; p-C<sub>6</sub>H<sub>4</sub>, p-C<sub>6</sub>H<sub>4</sub>, m. >300°, 0.11; and p-C<sub>6</sub>H<sub>4</sub>, p-C<sub>6</sub>H<sub>4</sub>C<sub>6</sub>H<sub>4</sub>, m. >300°, 0.13. The x-ray diagrams for most of the polymers indicate a crystalline state of linear order. The polymers are yellow or orange powders, insol. in most organic solvents, but readily soluble in  $\text{HCONMe}_2$  or concentrated  $\text{H}_2\text{SO}_4$ . Introduction of a benzene ring raises the softening point. The dielec. constant ranges from 1010 to 1011 ohm-cm.  
 IT 70110-39-3, Urea, 1,1'-p-phenylenebis[3-benzoyl-2-thio- (preparation of)  
 RN 70110-39-3 CAPLUS  
 CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9Ci) (CA INDEX NAME)

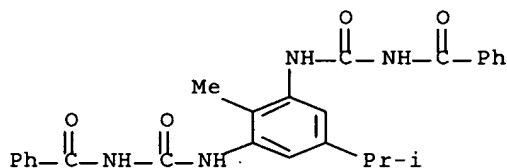


L5 ANSWER 34 OF 34 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1961:111847 CAPLUS Full-text  
 DN 55:111847  
 OREF 55:21006d-f  
 TI Mono- and diisocyanates of p-cymene  
 AU Adellac, F.; Lora-Tamayo, M.; Soto, J. L.  
 CS Univ. Madrid  
 SO Anales real soc. espan. fis. y quim. (Madrid) (1960), 56B, 985-94  
 DT Journal  
 LA Unavailable

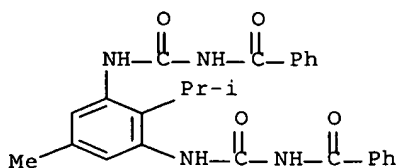
- AB The reaction of phosgene with the appropriate amines was used to prep. the following isocyanates of cymene (substituents, b.p./mm., m.p., nD (t), and % yield given): 2-OCN, 76-7°/1, -, 1.5205 (22°), 70; 3-NCO, 76-7°/1, -, 1.5190 (22°), 60; 6-NO<sub>2</sub>, 2-NCO, 120-3°/1, 75°, 1.5425 (55°), 50; 2,6-(NCO)<sub>2</sub> 123-6°/2, 52-3°, 1.5517 (55°), 89; 2,5(NCO)<sub>2</sub>, 125-6°/2, 46-7°, 1.5394 (55°), 65; 3,5-(NCO)<sub>2</sub>, 110-12°/2, -, -, 81. The p-tolyl-, benzoyl-, phenylureas, and some of the methyl- and ethylurethans were prepared 2,3-Diamino-p-cymene (15 g.) in 300 ml. o-Cl<sub>2</sub>C<sub>6</sub>H<sub>4</sub> treated with COCl<sub>2</sub> several hrs., the mixture distilled, and cooled yielded 2-hydroxy-4-methyl-7-isopropylbenzimidazole, m. 260-1°, which with PCl<sub>5</sub> yielded the 2-Cl derivative, m. 237-8°.
- IT 124143-33-5, Urea, 1,1'-[2-isopropyl-5-methyl-p-phenylene]bis[3-benzoyl- 124143-34-6, Urea, 1,1'-(5-isopropyl-2-methyl-m-phenylene)bis[3-benzoyl- 124514-32-5, Urea, 1,1'-[2-isopropyl-5-methyl-m-phenylene]bis[3-benzoyl- (preparation of)
- RN 124143-33-5 CAPLUS
- CN Urea, 1,1'-(2-isopropyl-5-methyl-p-phenylene)bis[3-benzoyl- (6CI) (CA INDEX NAME)



- RN 124143-34-6 CAPLUS
- CN Urea, 1,1'-(5-isopropyl-2-methyl-m-phenylene)bis[3-benzoyl- (6CI) (CA INDEX NAME)



- RN 124514-32-5 CAPLUS
- CN Urea, 1,1'-(2-isopropyl-5-methyl-m-phenylene)bis[3-benzoyl- (6CI) (CA INDEX NAME)



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L6 5 L4 NOT L5

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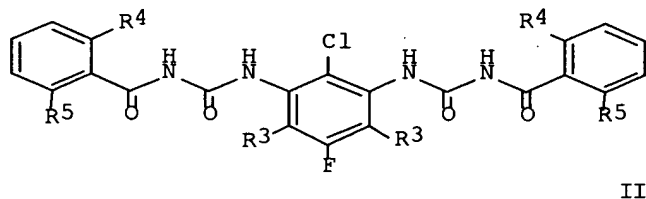
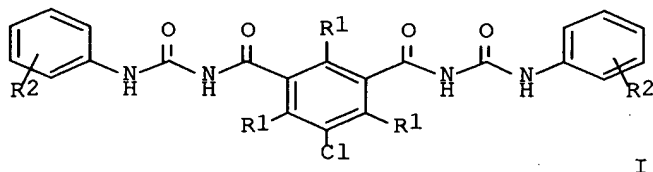
L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:980048 CAPLUS Full-text  
 DN 143:359432  
 TI Acyl Ureas as Human Liver Glycogen Phosphorylase Inhibitors for the Treatment of Type 2 Diabetes  
 AU Klabunde, Thomas; Wendt, K. Ulrich; Kadereit, Dieter; Brachvogel, Volker; Burger, Hans-Joerg; Herling, Andreas W.; Oikonomakos, Nikos G.; Kosmopoulou, Magda N.; Schmoll, Dieter; Sarubbi, Edoardo; Von Roedern, Erich; Schoenafinger, Karl; Defossa, Elisabeth  
 CS Scientific and Medical Affairs, Sanofi-Aventis Deutschland GmbH, Frankfurt am Main, D-65926, Germany  
 SO Journal of Medicinal Chemistry (2005), 48(20), 6178-6193  
 CODEN: JMCMAR; ISSN: 0022-2623  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 143:359432  
 AB Using a focused screening approach, acyl ureas have been discovered as a new class of inhibitors of human liver glycogen phosphorylase (hlGPa). The x-ray structure of screening hit 1 (IC<sub>50</sub> = 2 µM) in a complex with rabbit muscle glycogen phosphorylase b reveals that 1 binds at the AMP site, the main allosteric effector site of the dimeric enzyme. A first cycle of chemical optimization supported by x-ray structural data yielded derivative 21, which inhibited hlGPa with an IC<sub>50</sub> of 23±1 nM, but showed only moderate cellular activity in isolated rat hepatocytes (IC<sub>50</sub> = 6.2 µM). Further optimization was guided by (i) a 3D pharmacophore model that was derived from a training set of 24 compds. and revealed the key chemical features for the biol. activity and (ii) the 1.9 Å crystal structure of 21 in complex with hlGPa. A second set of compds. was synthesized and led to 42 with improved cellular activity (hlGPa IC<sub>50</sub> = 53±1 nM; hepatocyte IC<sub>50</sub> = 380 nM). Administration of 42 to anesthetized Wistar rats caused a significant reduction of the glucagon-induced hyperglycemic peak. These findings are consistent with the inhibition of hepatic glycogenolysis and support the use of acyl ureas for the treatment of type 2 diabetes.  
 RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:495314 CAPLUS Full-text  
 DN 144:254456  
 TI Synthesis and characterization of novel multifunctional acylthiourea polymers  
 AU Mao, Xue Pu; Huang, Jin Feng; Duan, Zhi Fang; Du, Zhi Yun; Huang, Zhi Shu; Ma, Lin; Gu, Lian Quan  
 CS School of Chemistry and Chemical Engineering, Sun Yat-sen University, Guangzhou, 510275, Peop. Rep. China  
 SO Chinese Chemical Letters (2005), 16(5), 609-612  
 CODEN: CCLEE7; ISSN: 1001-8417  
 PB Chinese Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 144:254456  
 AB Several thiourea polymers have been synthesized through the reaction of diamine with 1,4- or 1,3-benzenedicarbonyl chloride and ammonium thiocyanate by solid-liquid phase transfer catalysis of polyethylene glycol-400 (PEG-400). The polymers were characterized and identified by elemental anal., IR, <sup>1</sup>HNMR

and GPC. The multifunctional polymers have potential value as an ideal support for immobilized enzymes.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:432244 CAPLUS Full-text  
DN 142:155632  
TI Synthesis of novel bis-benzoylphenylurea chitin inhibitors  
AU Lin, Jun; Yang, Li-juan; Yan, Sheng-jiao; Li, Jun-feng; Liu, Fu-chu  
CS Department of Applied Chemistry, Yunnan University, Kunming, 650091, Peop.  
Rep. China  
SO Hecheng Huaxue (2004), 12(2), 117-119  
CODEN: HEHUE2; ISSN: 1005-1511  
PB Hecheng Huaxue Bianjibu  
DT Journal  
LA English  
OS CASREACT 142:155632  
GI



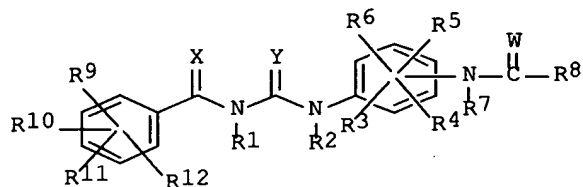
AB Twelve novel bis-benzoylphenylurea chitin inhibitor derivs., I (R1 = Cl, F; R2 = 4-Cl, 2-Cl, 4-Br) and II (R3 = H, CN, R4 = R5 = F, Cl; R3 = H, CN, R4 = Cl, R5 = H), have been synthesized in over 30 .apprx. 50% yield from chlorothalonil via sequential fluorine exchange, nitrile hydrolysis, decarboxylation and acylation reactions.

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

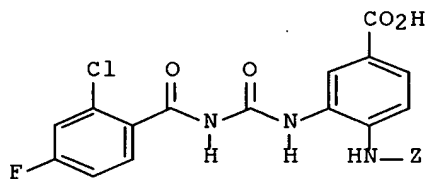
L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:60456 CAPLUS Full-text  
DN 140:128158  
TI Preparation of N-[(phenylamino)carbonyl]benzamides as  
glycogenphosphorylase-A inhibitors for the treatment of diabetes  
IN Defossa, Elisabeth; Kadereit, Dieter; Klabunde, Thomas; Burger,  
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PA Aventis Pharma Deutschland GmbH, Germany  
SO PCT Int. Appl., 75 pp.

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 LA German  
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PI	WO 2004007437	A1	20040122	WO 2003-EP6934	20030630
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2493373	AA	20040122	CA 2003-2493373	20030630
	AU 2003281027	A1	20040202	AU 2003-281027	20030630
	BR 2003012593	A	20050412	BR 2003-12593	20030630
	EP 1523471	A1	20050420	EP 2003-740386	20030630
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2005532402	T2	20051027	JP 2004-520438	20030630
	US 2004087659	A1	20040506	US 2003-616959	20030711
PRAI	DE 2002-10231371	A	20020711		
	US 2002-425600P	P	20021112		
	WO 2003-EP6934	W	20030630		
OS	MARPAT 140:128158				
GI					



I



II

AB Title compds. I [W, X, Y = O, S; R9, R10, R11, R12 = H, halo, OH, etc.; R1, R2 = H, (un)substituted alkyl; R3, R4, R5, R6 = H, halo, OH, etc.; R7 = H, (un)substituted alkyl, e.g., OR13, NR14R15, etc.; R8 = NR18R19, OR20; R13 = H, alkyl, alkenyl, etc.; R14, R15 = H, (un)substituted alkyl; R18, R19 = H, alkyl, alkenyl, etc.; R20 = alkyl, alkenyl, alkynyl, etc.] and their pharmaceutically acceptable salts were prepared For example, condensation of benzamine II (Z = H), e.g., prepared from 2-chloro-4-fluorobenzamide in 2-steps, and carbonochloridic acid Me ester afforded benzamide II (Z = COMe) in 55% yield. In glycogenphosphorylase-A (GPa) inhibition assays, 23-examples of

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compds. I, at 10  $\mu$ M, exhibited 48-100% inhibition of GPa activity, e.g., benzamide II (Z = COMe) displayed 53% enzyme inhibition. Compds. I were claimed useful as antidiabetic agents.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:790618 CAPLUS Full-text

DN 140:339042

TI Synthesis and activities of aroyl(aryloxyacetyl) aryldithiourea derivatives as plant growth regulators

AU Wu, Wei-lin; Ye, Wen-fa; Du, Zi-xiu; Wang, Yan-gang

CS Huaihua Medical College, Huaihua, 418000, Peop. Rep. China

SO Hecheng Huaxue (2003), 11(4), 310-314

CODEN: HEHUE2; ISSN: 1005-1511

PB Hecheng Huaxue Bianjibu

DT Journal

LA Chinese

OS CASREACT 140:339042

AB By the use of solid-liq. phase transfer catalyst, 15 title compds. with diacylthiourea structure were synthesized from substituted aryloxyacetic acid or aromatic acid and aromatic diamine. For example, reaction of 3-MeC<sub>6</sub>H<sub>4</sub>CONCS, prepared from 3-methylbenzoic acid, with p-phenylenediamine gave 83% N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3-methylbenzamide]. The test of their biol. activities shows that most compds. have good plant growth regulating activities and a few of them are more active than indoleacetic acid.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
190.77	357.92

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-29.25	-29.25

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